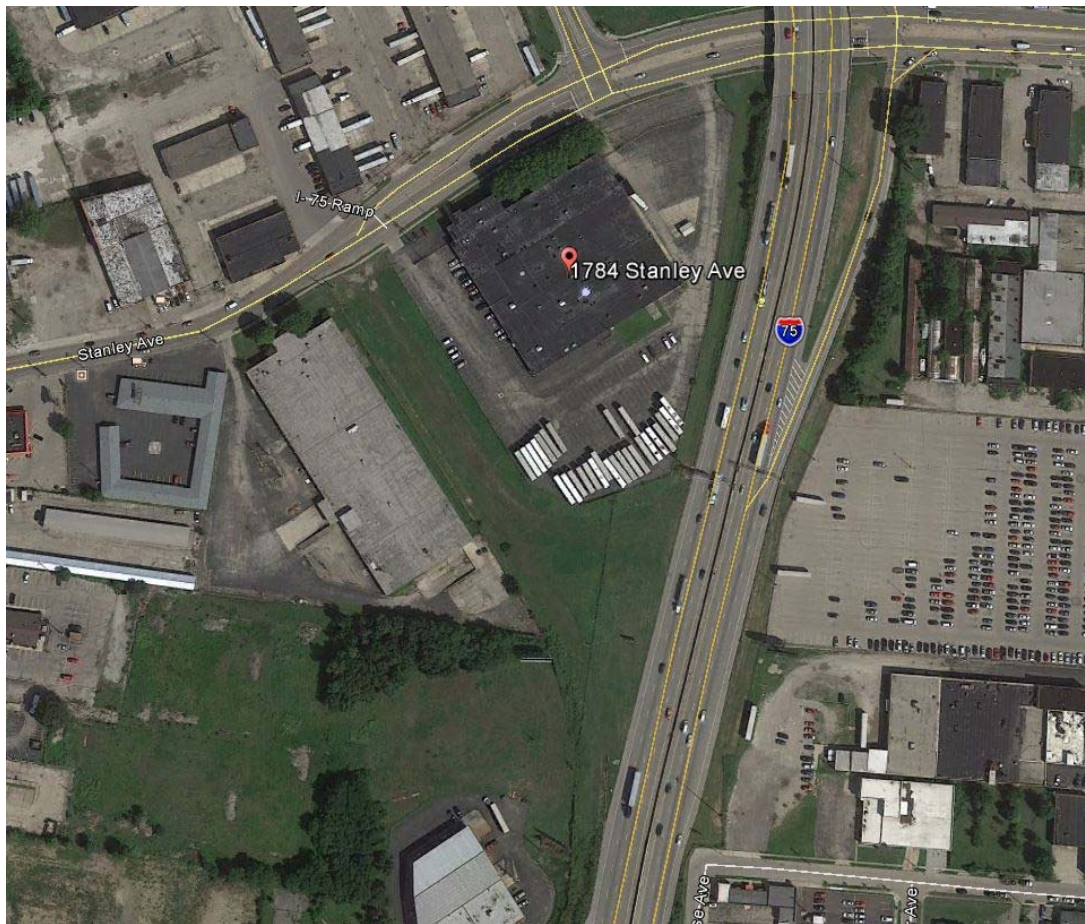




# Preliminary Assessment

## Simclar Inc., Dayton



Division of Environmental Response and Revitalization  
May 2017



## Preliminary Assessment Report

### Former Simclar Facility

Dayton, Montgomery County, Ohio

U.S. EPA ID: OHN000506611

DERR ID: 557002905006

May 2017

Prepared by:

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**PRELIMINARY ASSESSMENT (PA)  
REPORT**

**For**

**Former Simclar Facility  
Dayton, Montgomery County, Ohio  
U.S. EPA ID OHN000506611  
Ohio EPA ID 557002905006**

**OHIO ENVIRONMENTAL PROTECTION AGENCY  
Division of Environmental Response and Revitalization  
Lazarus Government Center  
50 West Town Street  
Columbus, Ohio 43216**

**May 2017**

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## 1.0 EXECUTIVE SUMMARY

The Ohio Environmental Protection Agency (Ohio EPA) Division of Environmental Response & Revitalization (DERR) entered into a cooperative agreement with the United States Environmental Protection Agency (U.S. EPA) Region V to conduct a Preliminary Assessment (PA) of the Former Simclar Facility located in Montgomery County, Ohio.

The purpose of this report is to evaluate site history and summarize available data to determine if further action and sampling is necessary.

A Pre-CERCLA Screening (PCS) report was completed by Ohio EPA under the name of *Former Simclar Facility* and approved by U.S. EPA on October 3, 2016. The site has also been referred to as Lytton, Inc., Labinal Components and Systems, Globe Motors, TRW, Inc., and Globe Industries.

The Former Simclar Facility (Property) is situated on one parcel of land totaling 5.5472 acres and located at 1784 Stanley Avenue, Dayton, Montgomery County, Ohio (the Property). The Property overlies the Great Miami Buried Valley Sole-Source Aquifer and is located approximately 0.5 miles from the city of Dayton's Miami Wellfield well-head protection area and within 1.5 miles of the Mad River production wellfield. Together the two wellfields serve approximately 400,000 people.

Due to historic operations at the former facility, the aquifer beneath the Property is contaminated above maximum contaminant level (MCL) drinking water standards for the following chemicals of concern (COCs): tetrachloroethene (PCE), trichloroethene (TCE), and 1,1,1-trichloroethane (1,1,1-TCA). Concentrations of COCs in ground water beneath the Property indicate that there is an ongoing source leaching to the aquifer. Heavy metals and volatile organic compounds (VOCs) may remain in property soils and could pose a direct contact threat to commercial/industrial and construction/excavation workers. The possibility exists for the ground water plume to migrate off-property and create a vapor intrusion threat at nearby occupied structures.

U.S. EPA and Ohio EPA became aware of ground water and soil contamination at the Property during sampling for the Behr Dayton Thermal Systems VOC Plume Superfund site (Behr) that is hydraulically side-gradient to the Property. The Behr Dayton Thermal Systems VOC Plume Superfund Site is located a half mile east of the Property. In 2007, as part of the remedial investigation for Behr, ground water in the area wells was sampled. As part of this effort three existing wells on the Property were sampled. The following COCs were detected above their MCL: 1,1,1-TCA was detected at a concentration of 710 micrograms per liter (µg/L) (federal MCL is 200 µg/L), PCE was detected at a concentration of 22 µg/L and TCE was detected at a concentration of 520 µg/L. The MCL for PCE and TCE is 5 µg/L.

In December 2012, Ohio EPA's Site Investigation Field Unit (SIFU) collected grab ground water samples at the Property. The highest ground water detections were 302 µg/L 1,1,1-TCA, 12.8 µg/L PCE, and 237 µg/L TCE.

A previous property owner conducted an independent site investigation in 2014-2015. Ground water samples had concentrations of PCE and TCE above their MCLs. Two samples contained PCE at 5.1 µg/L, while numerous samples contained TCE. TCE concentrations ranged from 5.7 to 293 µg/L.

Since 2013 Ohio EPA has been working with two identified potentially responsible parties (PRPs) to negotiate orders requiring them to investigate the site and perform any necessary cleanup; however, the PRPs have not been willing to sign an order. Consequently, in 2014 the case was referred to the Ohio Attorney General's Office. Negotiations are ongoing.

## 2.0 SITE BACKGROUND

### 2.1 Site Description

The Former Simclar Facility is situated on one parcel of land totaling 5.5472 acres and located at 1784 Stanley Avenue, Dayton, Montgomery County, Ohio. The latitude and longitudinal coordinates for the Property are 39.7872 latitude and -84.1853 longitude. The Property is occupied by a 77,792 square foot manufacturing plant and a 320 square foot storage building. The Property is in an industrial area and is bounded to the north by Stanley Avenue, to the west by a vacant lot, to the east by Interstate 75, and to the south by a vacant lot. The Property overlies the Great Miami Buried Valley Sole-Source Aquifer and is located approximately 0.5 miles from the city of Dayton's Miami Wellfield well-head protection area. The Property is hydraulically side-gradient to Behr, a Superfund site, and hydraulically up-gradient of the Resource Conservation and Recovery Act (RCRA) corrective action site, EPS. The current property owner is Good Samaritan Homes. Good Samaritan Homes employs underprivileged and handicapped individuals in the Dayton area for light assembly of pre-made goods. The Property may potentially overlie a hydraulic ground water flow divide area as two historic investigations done by different parties have shown ground water flow in varying directions under the Property. **Figure 1** provides an aerial view of the Property.

### 2.2 Site History

Review of historical records and past reports completed for the Property confirm that the Property was purchased by Globe Industries in 1951. The Property was developed from 1952 to 1965 with a hazardous waste storage shed being built in 1961. In 1966, the property was purchased by TRW (Globe Industries, a Division of TRW). Labinal Components & Systems purchased the Property in 1987 and closed down in 1991. In 1995, Lytton, Inc. purchased the Property and Stanley Avenue Properties purchased the Property in 1997 with Lytton, Inc. leasing. In 2001, Simclar, Inc. began leasing the Property and purchased it in 2004 (Burgess & Niple, 2014).

Historically, the Property was used as a manufacturing facility for electric motors until 1991. It was then used for manufacturing printed circuit boards until Simclar ceased operations in 2012. Currently, the property is owned by Good Samaritan Homes and is used for light commercial/industrial processes.

The property changed ownership multiple times: Globe Industries (1951-1967), TRW Inc. (1967-1987), Labinal Components and Systems, AKA Globe Motors (1987-1995), Lytton Incorporated (1995-1996), Stanley Avenue Properties Ltd. (1996-2004), Simclar, Inc. (2004-2014), First Priority Tax Solutions (2014-2016), and Good Samaritan Homes (2016-present).

Globe Industries, TRW Inc., Labinal Components and Systems/Globe Motors

manufactured electric motors at the Property. During this historic manufacturing, the companies generated hazardous waste streams including used PCE, TCE, and 1,1,1-TCA. Heavy metals, such as chromium and lead, were also used in the motor manufacturing process. Lead was also later used in the manufacture of circuit boards when the property was owned and operated by Lytton Incorporated, Stanley Avenue Properties Ltd., and Simclar, Inc. Suspected source areas for VOCs include the former hazardous waste storage shed and pad, interior locations of metal plating and spray booths, and a former underground storage tank (UST) previously located near the northwestern corner of the building, in the parking lot.

## **2.3 CERCLA History**

Ohio EPA generated a Pre-CERCLA Screening Assessment Checklist for the property; the checklist was approved by USEPA on October 3, 2016.

The PA was conducted in November 2016 and determined the following: the results of the 2012 Phase II assessment, conducted by Ohio EPA, demonstrate that soil and ground water at the Property are contaminated above U.S. EPA's regional screening levels (RSLs) for soil leaching to ground water and MCLs for ground water. Historic operations for manufacturing electric motors included the use of the VOCs PCE, TCE, and 1,1,1-TCA as well as heavy metals. Spent solvents were housed outside on the storage pad and in the chemical storage shed located on the eastern side of the building. Sampling, independently conducted in 2014-2015 by a previous site owner, confirmed the continued presence of PCE and TCE contamination in ground water at the Property above the chemical's MCLs.

The Property is within a half mile west of the Behr Dayton Thermal Systems VOC Plume Superfund Site. Based on ground water flow patterns and VOC concentrations, the Simclar Property and the Behr Site are two, separate releases. The Simclar Property has been ruled out as a source for the Behr Site.

## **2.4 Other Cleanup Authorities**

### **2.4.1 RCRA**

The Ohio EPA hazardous waste program inspected the Property two separate times during its operational history – April 5, 1986 and June 22, 1988. Only minor violations were discovered during the inspections. From 1961-1987 and 1987-1991 both TRW Inc. and Globe Motors, respectively, were large quantity generators of hazardous wastes at the Property and operated under the hazardous waste generator number, OHD041066325. Based on the January 1994 document, *Waste Characterization – Plating Area, Soil Sampling/Analysis – Pad Area, and Tank Cleaning/Disposal*, prepared by Environmental Assessment Services, Inc., on behalf of Globe Motors, it appears that Globe Motors stored their plating wastes, which were characteristic hazardous wastes,

for greater than 90-days. This document reveals that Globe Motors had shut down operations at the Property in 1991 and had left their plating wastes on site until 1994. Because Globe Motors was a large quantity generator of hazardous waste, and they had stored their hazardous waste for longer than 90-days, the facility was, in essence, acting as an unpermitted treatment, storage and disposal (TSD) facility. However, Globe Motors was not cited for this violation. The RCRA program at Ohio EPA has been consulted regarding whether there are any RCRA issues at this facility; there are currently no RCRA issues. Based on this information it is appropriate for the site to be addressed under CERCLA authority. Since 2013, the Ohio EPA Remedial Response program has been working with two PRPs to sign an order to address contamination at the site.

#### 2.4.2 Other Investigations/State Enforcement

Historically, previous property owners conducted property assessments in the 1980s and 1990s. Ohio EPA conducted a property assessment in 2012/2013.

In 1994, a Phase II property assessment was conducted by Bowser-Morner and Environmental Assessment Services, Inc. to categorize waste being generated on site, to remove three above ground storage tanks (AST), and to investigate suspected releases of chemicals on site. Three monitoring wells and four soil borings were installed in an area that formerly stored bulk chemicals, drums of hazardous waste, solvents, plating chemicals, and three 1,000-gallon ASTs containing waste oil, waste coolants, and 1,1,1-TCA. **Figure 2** is from the 1994 assessment report and depicts where samples were located. Results indicated that cyanide and solvents had leaked through the floor of the storage area and that PCE, TCE, and toluene had been spilled north of the storage area. Ground water and soil sample results are provided in Table 1. The Phase II property assessment concluded that, though such chemicals were present above MCLs in the ground water on site, they posed no immediate health risk (Bowser-Morner, 1994).

U.S. EPA and Ohio EPA sampled three existing wells on the Property in 2007 as part of an area-wide ground water assessment for the Behr site. 1,1,1-TCA, PCE, and TCE were detected at the following concentrations, 710 µg/L, 22 µg/L, and 520 µg/L, respectively.

On September 10, 2012, as requested and commissioned by Ohio EPA, a Phase I property assessment was submitted by Turn-Key Environmental Consultants to the Ohio EPA. Turn-Key Environmental Consultants concluded that the Property poses a potential environmental threat due to the historic use of the Property for manufacturing. In addition, Turn-Key Environmental Consultants had concerns related to the chemical storage and disposal of the chemicals, 1,1,1-TCA, PCE, and TCE, and heavy metals.

The Phase I property assessment concluded that further investigation was needed to determine the source and extent of contamination, whether additional areas of



contamination exist, and whether contamination is migrating off-site.

On December 3, 2012, a Phase II property assessment was conducted by Ohio EPA SIFU to mimic the 1994 Phase II property assessment by Bowser-Morner and to evaluate subsurface conditions. Soil samples targeted the bulk chemical storage shed. The goals of the SIFU Phase II included: verifying the release of VOCs to soil and ground water; locating contaminated soils that are acting as a source of VOCs to ground water; and determining the direction of ground water flow. **Figure 3** shows the location of samples collected by SIFU in 2012.

Results of the SIFU Phase II investigation indicate that there is a source of VOCs on the property. The highest concentrations of VOCs in soil included TCE and 1,1,1-TCA in soil boring (SB) 3 at 63.5 milligrams per kilogram (mg/kg) and 43.5 mg/kg, respectively, and PCE in SB4 at 4.77 mg/kg. The highest concentrations of VOCs in ground water were all above their respective MCLs and occurred in monitoring well 3: PCE was detected at 12.8 µg/L, TCE at 237 µg/L, and TCA at 302 µg/L. Ground water and soil sample results are summarized in Table 2. Ground water flow was determined to be to the south.

On September 9, 2013, Ohio EPA sent an invitation to negotiate final findings and orders to two PRPs, Globe Motors and Northrop Grumman, for a source control interim action, plume delineation and remediation, and areas of concern investigation and remediation. On May 29, 2014, after numerous attempts to negotiate with the PRPs, the orders were referred to the Ohio Attorney General's Office to initiate legal action, to pursue injunctive relief and to recover costs incurred by Ohio EPA in responding to conditions at the Property. Negotiations are on-going.

In June 2014 and July 2015, the previous owner, First Priority Tax Solutions, commissioned Burgess & Niple, Inc., to develop a Voluntary Action Program (VAP) Phase I and Phase II property assessment. Ohio EPA has not conducted a quality assurance/quality control review of the data and did not perform a technical review of the document text and models. The Phase I identified 10 areas of concern that required environmental sampling. The Phase II collected shallow soil samples, ground water grab samples, monitoring well samples, and indoor air samples. **Figure 4** shows sample locations as provided in the 2015 VAP Phase II report and summarizes ground water detections. The ground water flow direction was determined to vary across the Property. In some areas ground water was flowing to the north/north-east and in other areas it was flowing toward the west. Shallow soil samples, collected from 0-2, 2-4, and from a few feet to 10 feet below ground surface (bgs), were compared to VAP generic direct-contact standards. VAP direct contact standards for commercial/industrial workers were exceeded at three locations across the property for benzo(a)pyrene, lead, and total petroleum hydrocarbons. Grab ground water samples were collected from a number of areas across the site and were initially screened for VOCs, metals, and polynuclear aromatic hydrocarbons (PAHs). TCE was detected in a number of grab ground water samples ranging from 6.8-61.1 µg/L. Based on results of the grab ground

water sampling, permanent monitoring wells were installed and, along with existing monitoring wells, sampled. Drinking water standards were exceeded for VOCs, metals, and PAHs. Specifically, TCE was detected above the MCL ranging from 5.7-293 µg/L at various locations throughout the Property. Currently, ground water is not used for potable purposes on Property.

## **2.5 Site Geology & Hydrology**

### **2.5.1 Geology**

According to the Physiographic Regions of Ohio map from the Ohio Department of Natural Resources (ODNR), the Property is located in the Till Plains and the Southern Ohio Loamy Till Plain. These physiographic regions are characterized by a surface of loamy till and end and recessional moraines, commonly associated with boulder belts, between relatively flat lying ground moraines. This area is cut deeply by steep-valleyed large streams filled with outwash and alternates between broad and narrow flood plains (Burgess & Niple, 2014).

The glacial outwash deposits beneath the area consist primarily of well sorted, stratified deposits of sand, gravel, cobbles, and boulders. Bedrock consists of calcareous shales and thin, bedded limestones of the upper Ordovician Richmond group (Turn-Key Environmental, 2012).

### **2.5.2 Soils**

Specific soils data obtained from subsurface investigations conducted on the Property indicate the presence of construction fill or silty clay in the top few feet, then silty river alluvium, followed by more than twelve feet of sand/gravel (Turn-Key Environmental, 2012).

### **2.5.3 Topography**

According to the United States Geological Survey 7.5-Minute Topographic Map of the North Dayton area, the elevation for the property is approximately 744-745 feet above mean sea level. Surrounding properties are between 738 and 779 feet above mean sea level (Burgess & Niple, 2014, and Turn-Key Environmental, 2012).

The southern portion of the Property is higher in elevation than the remainder of the Property and surrounding properties. The parking lot on the east side of the building slants toward the building to the west, and the remainder of the Property is generally flat. Surface water flows into storm drains on the Property and the adjacent street (Turn-Key Environmental, 2012).

#### 2.5.4 Hydrogeology

The ODNR, Division of Water, Groundwater Resource Map for Montgomery County indicates the Property is in an area where well yields of more than 500 to 1,000 gallons per minute (gpm) may be developed. Permeable sand and gravel deposits beneath the floodplain of the Mad and Miami Rivers identify this area as having a “high yield.” Production wells in the area are identified between 110 and 175 feet bgs in depth and yielding 600 to 1,200 gpm. Most production wells are set in sand and gravel. Some bedrock was found at 110 feet bgs (Burgess & Niple, 2014). From historical investigations, depth to water at the Property ranges from 12 to 14.5 feet bgs.

### **2.6 Land Use and Demographic Information**

The area immediately surrounding the subject property is occupied by the following: Stanley Avenue to the north with a trucking company and undeveloped land (northeast) beyond; a vacant lot to the east with a vacant industrial building beyond; undeveloped land to the south; and Interstate 75 to the east.

The Property consists of one 77,792 square feet (sf) former manufacturing plant, which, according to visual inspections of the Property and previous assessments, consists of offices, a former machine shop, a former production area, a former automation room, loading docks and chemical storage, and a former solder wave room. According to previous assessments, the northern portion of the building was constructed in 1952 with additions built from 1955 to 1965. The former hazardous waste storage shed was constructed in 1961 (Burgess & Niple, 2012).

The city of Dayton’s Miami Wellfield well-head protection area lies less than 0.5 miles northeast of the Property. The closest Miami Wellfield production well lies less than 1-mile from the Property. The city of Dayton’s Mad River Wellfield and closest production well are located 1.5-miles to the southeast of the Property. Together the Miami and Mad River Wellfields serve approximately 400,000 people.

According to the 2010 census, 5,691 people live within a one-mile radius of the Property.

Complete detailed demographic information is provided in the Target Distance Maps and Tables in **Appendix D**.

### 3.0 MIGRATION PATHWAYS

#### 3.1 Ground Water Pathway

Ground water is the primary pathway of concern due to known VOC ground water contamination. In 2012, the highest concentrations detected in ground water monitoring wells on the Property were 302 µg/L of 1,1,1-TCA, 12.8 µg/L of PCE, and 237 µg/L of TCE. There is the potential for soils on the Property to be contaminated above leaching standards. These soils may be continually leaching VOCs to ground water above the MCL.

Public drinking water systems that use ground water and well-head protection areas are within the four-mile target distance limit. The majority of the surrounding population obtains their drinking water from the city of Dayton. Dayton operates the Miami Wellfield and the Mad River Wellfield. These two wellfields have 102 active wells serving approximately 400,000 people. There are 36 production wells in the Miami Wellfield. Both wellfields draw water from the Great Miami River Buried Aquifer System, which has been designated as a sole-source aquifer. Ground water flow under the Property has shown to vary over time. Numerous ground water level measuring events have been performed using wells on the Property. Water level measuring events have occurred in 1994, 2012, 2015 and 2017. The hydraulic gradient on the Property is fairly level. The most recent elevation event measured differences in hydraulic heads of 0.1 feet between monitoring wells. On Property, it appears that ground water flows generally to the southeast, based on investigations performed in 1994, 2012 and 2017. However, elevations collected in 2015 indicated ground water may also at times flow west/northwest and there may be a ground water divide on the Property where ground water flow shifts from westerly flow to northern flow. See **Figures 5, 6, and 7**. At times, there is the potential for contaminated ground water to be flowing northerly, towards the Miami Wellfield.

Regionally, ground water flow is to the southeast, based on data collected for the nearby Behr Dayton Thermal VOC Plume Superfund Site. A ground water divide has also been measured generally extending to the east along Stanley Avenue, which is consistent with ground water elevations measured in 2015 in on Property wells. For a pictorial description, please see **Appendix A, Figure 8** (AECOM, 2014).

#### 3.2 Surface Water Pathway

No surface water bodies exist on the Property, although the Great Miami River is located less than a half mile northwest of the Property. A storm water sewer is located on the property. As such, there is the potential for overland flow from the site to the storm sewer. There are no known releases to storm sewers, although historically, the hazardous waste storage area drained to the storm sewers on the eastern side of the Property.

There are 33.8 miles of river frontage and three different types of wetlands within the 15-mile target distance limit. The four wetland types are: riverine, freshwater forested/shrub wetland, and freshwater/emergent wetland. There is one threatened species located 0.968 miles from the site, the *Uniomereus tetralasmus*, commonly known as the Pondhorn, a freshwater mollusk.

### **3.3 Soil Exposure Pathway**

There is a potentially complete soil exposure pathway at the Property due to contaminated soils. On-site workers and potential construction/excavation workers could be exposed through incidental ingestion and dermal contact with contaminated soils. Due to the VOC contamination present in the soil, vapor migration into occupied structures both on and off-property, is also a potential threat. On-site workers could also be exposed to contaminated vapors during excavations and through inhalation of fugitive dust. Historical use of the property includes use of heavy metals, specifically chromium and lead, and chlorinated solvents, including PCE, TCE, and 1,1,1-TCA.

### **3.4 Air Pathway**

The air pathway is not a major pathway of concern.

## **4.0 Summary**

The ground water and soil contamination on the Property are contributing to an on-going source of VOCs to the sole-source aquifer and resulting in contamination to the aquifer above MCLs. Although ground water is not used for potable use at the Property, it has the potential to impact the City of Dayton's municipal supply wells, which serve approximately 400,000 people.

The on and off-property vapor intrusion pathway is of concern as sample results indicate that the ground water contamination may be migrating off-property.

There is the potential for property-wide soils to pose a direct contact threat to commercial/industrial and construction/excavation workers.



## 5.0 REFERENCES

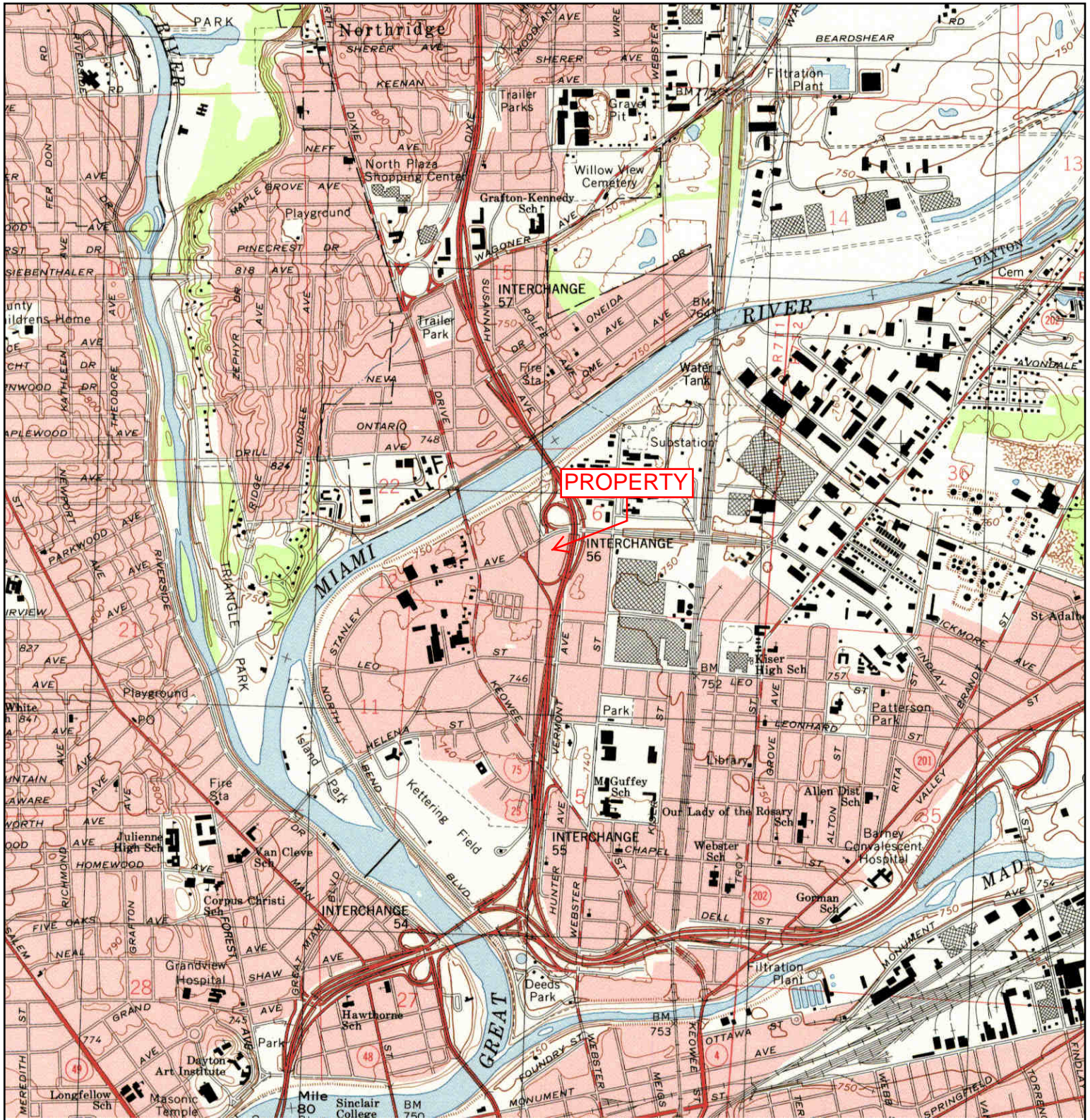
- Report on Phase II Investigation of Former Globe Motors Site, Bowser-Morner, May 1994
- Physiographic Regions of Ohio, Ohio Department of Natural Resources, Division of Geological Survey, map, Brockman, C. Scott, 1998
- VAP Phase I Property Assessment, Burges & Niple, June 2014
- Interim Phase II Property Assessment Performed Following Ohio EPA Voluntary Action Program Protocol, Burgess & Niple, July 2015
- Phase I Environmental Site Assessment of Simclar, Inc., Turn-Key Environmental Consultants, Inc., September 2012
- Engineering Evaluation/Cost Analysis for the Behr Dayton Thermal Products Plant, Final, AECOM, November 2014
- Site Investigation Field Unit Field Report, Ohio EPA, April 2017

## **Appendix A**

### Figures



Figure 1: Site Location Map (Turn-Key Environmental, 2012)



<div> <div>N</div> <div>↑</div> </div>	<div>TARGET QUAD</div> <div>NAME: DAYTON NORTH</div> <div>MAP YEAR: 1996</div> <div>SERIES: 7.5</div> <div>SCALE: 1:24000</div>	<div>SITE NAME: Simclar</div> <div>ADDRESS: 1784 Stanley Avenue Dayton, OH 45404</div> <div>LAT/LONG: 39.787 / -84.1853</div>	<div>CLIENT: Turn-Key Env. Consultants, Inc</div> <div>CONTACT: Heather Wendel</div> <div>INQUIRY#: 3352072.4</div> <div>RESEARCH DATE: 06/25/2012</div>



Figure 2: Phase II Investigation Sample Location Map (Bowser-Morner, 1994)

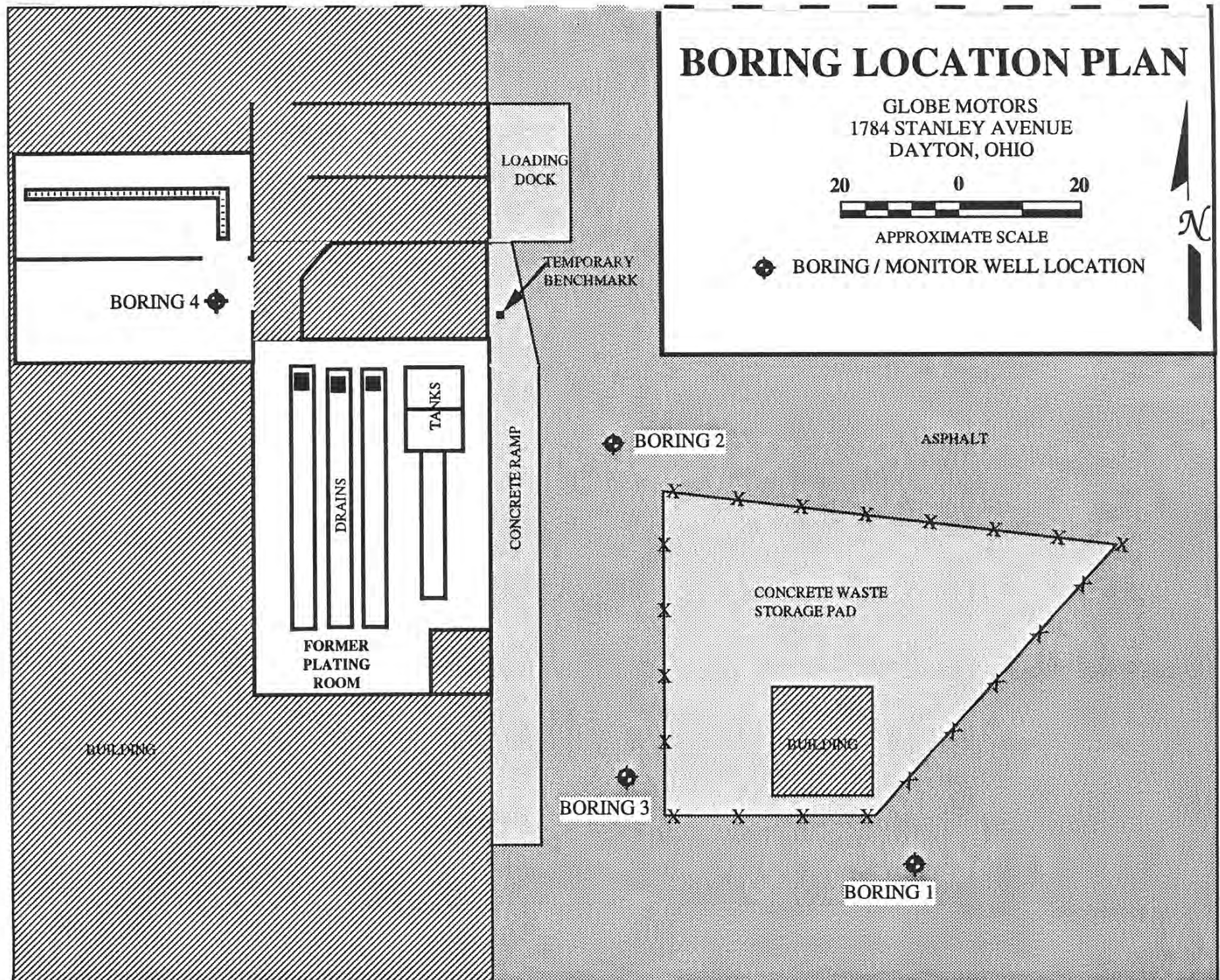
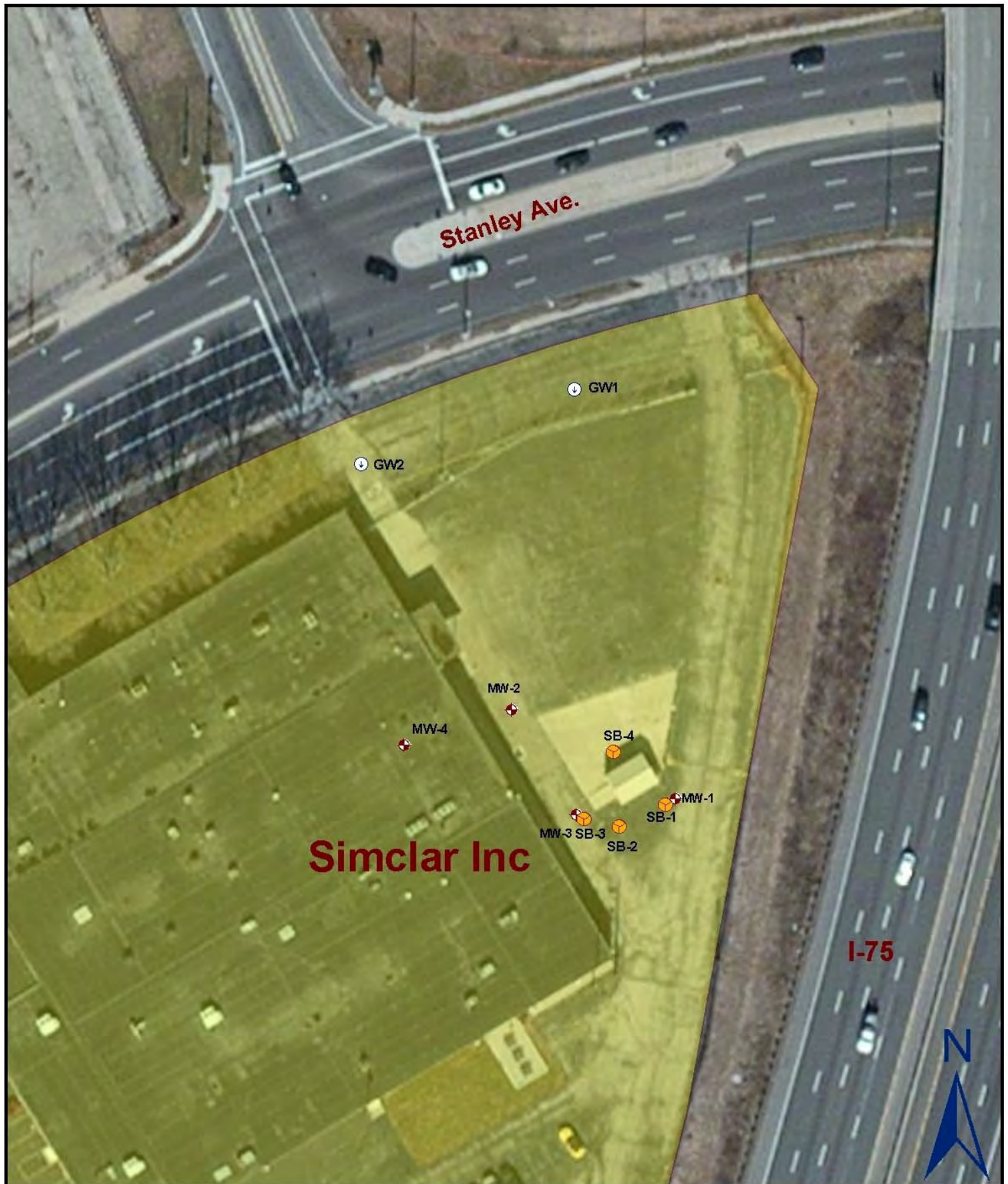




Figure 3: 2012 Phase II Expanded Site Assessment Sample Location Map

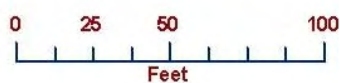


Environmental  
Protection Agency

Division of Environmental  
Response and Revitalization

January 2, 2013  
JRW  
Aerial Source: 2010 Bing Maps

Simclar, Inc.  
Phase II ESA Sampling Locations



LEGEND

- Simclar Inc Property Boundary
- Monitoring Well
- Geoprobe Groundwater
- Soil Boring



Figure 4: Phase II Voluntary Action Program Sample Location and Ground Water Results Map (Burgess & Niple, 2015)

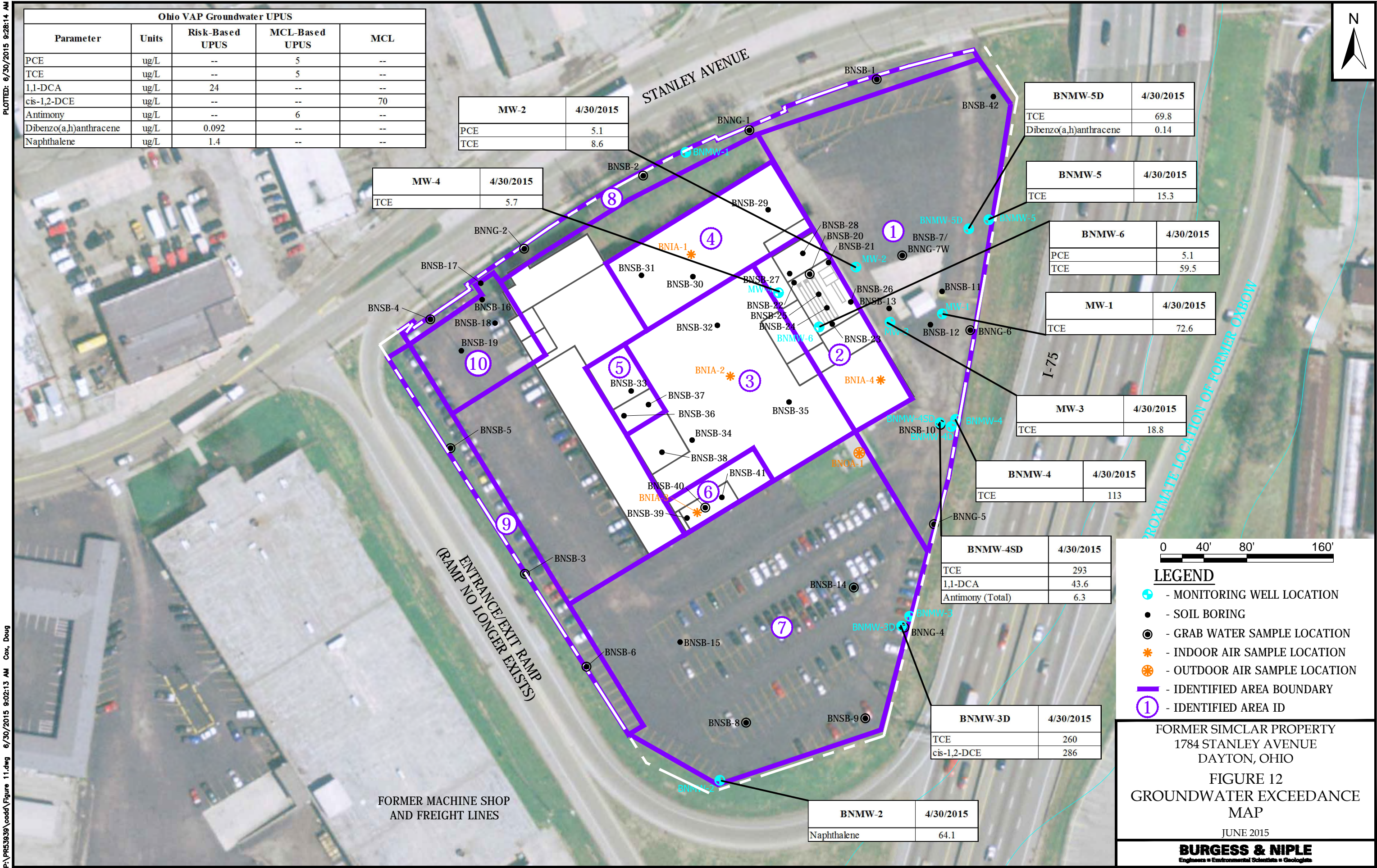




Figure 5: Phase II Investigation Ground Water Flow Map (Bowser-Morner, 1994)

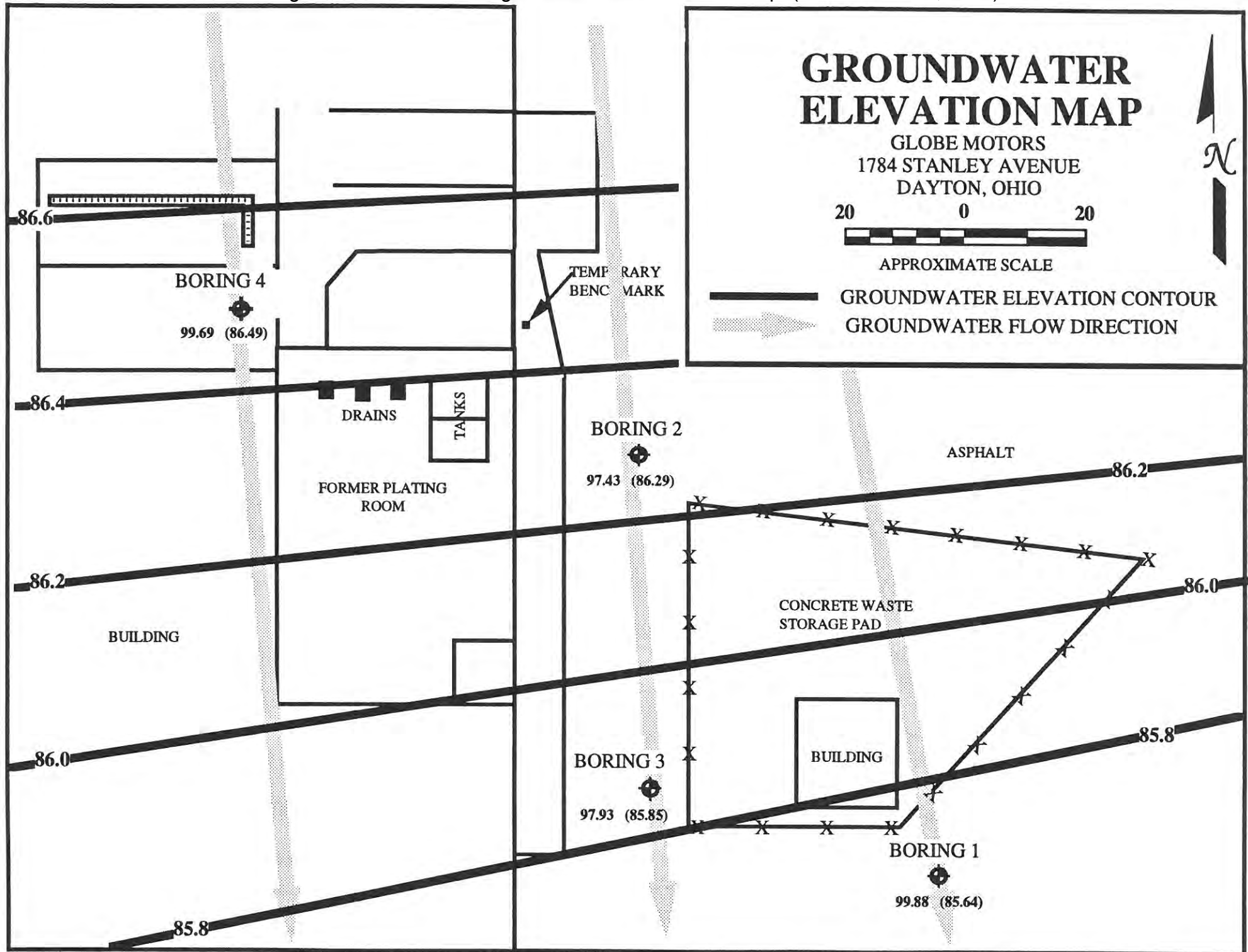
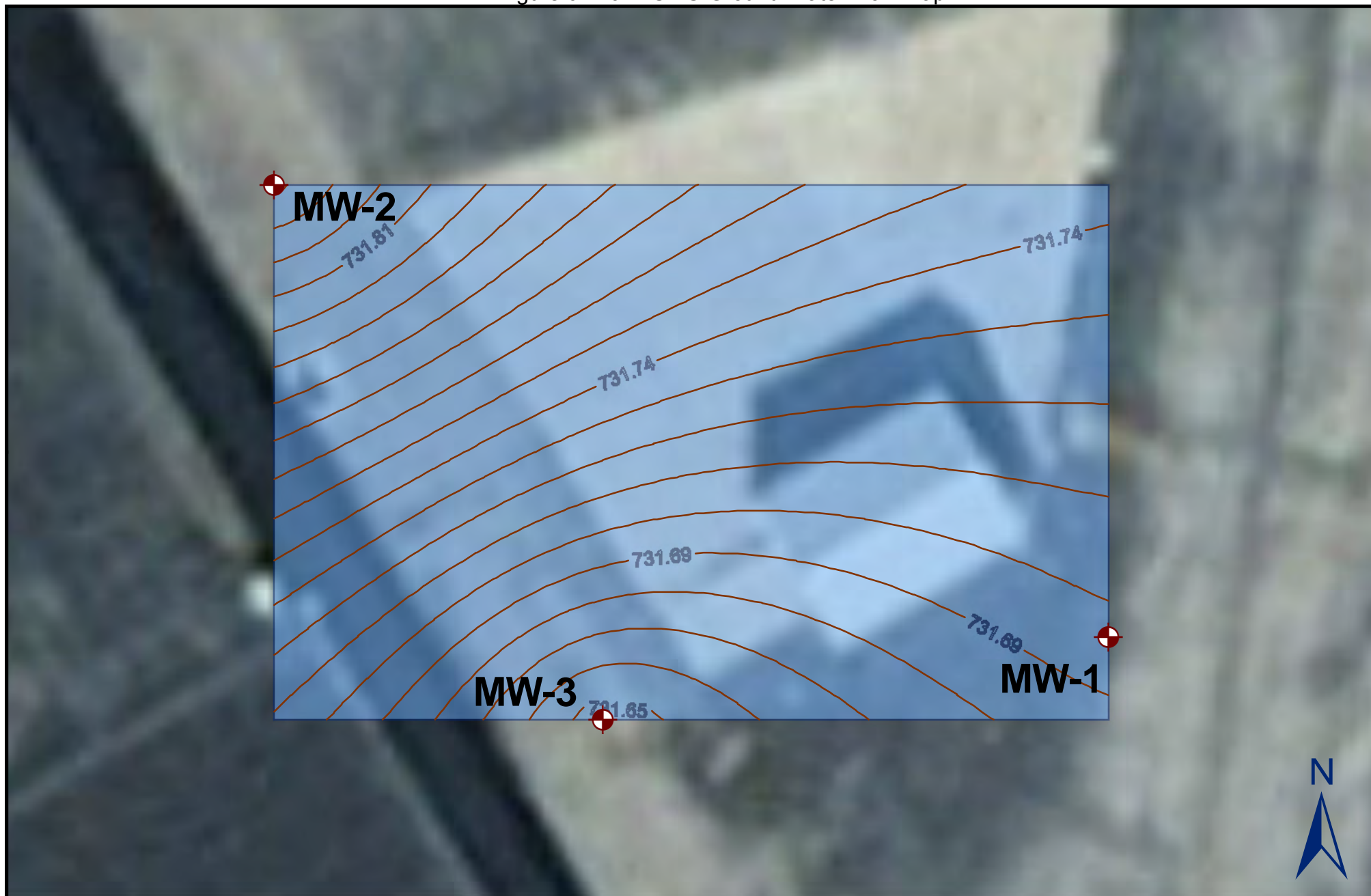


Figure 6: 2012 SIFU Ground Water Flow Map



April 24, 2013  
JRW  
Aerial Source: World Imagery

**Simclar, Inc.**  
**Phase II ESA Groundwater Contours**



**LEGEND**  
 Monitoring Well



Figure 7: 2015 VAP Phase II Ground Water Flow Map (Burgess & Niple, 2015)

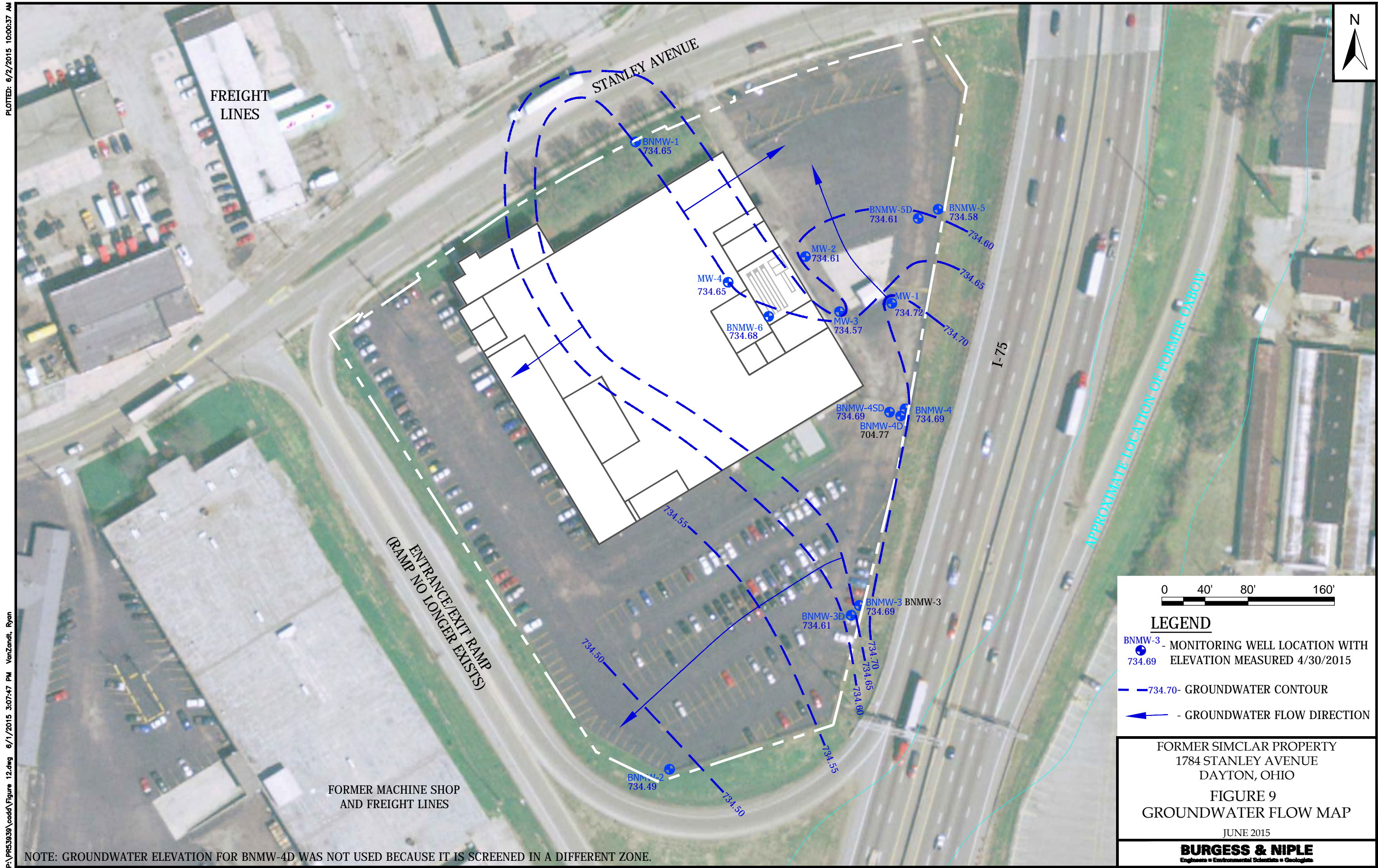
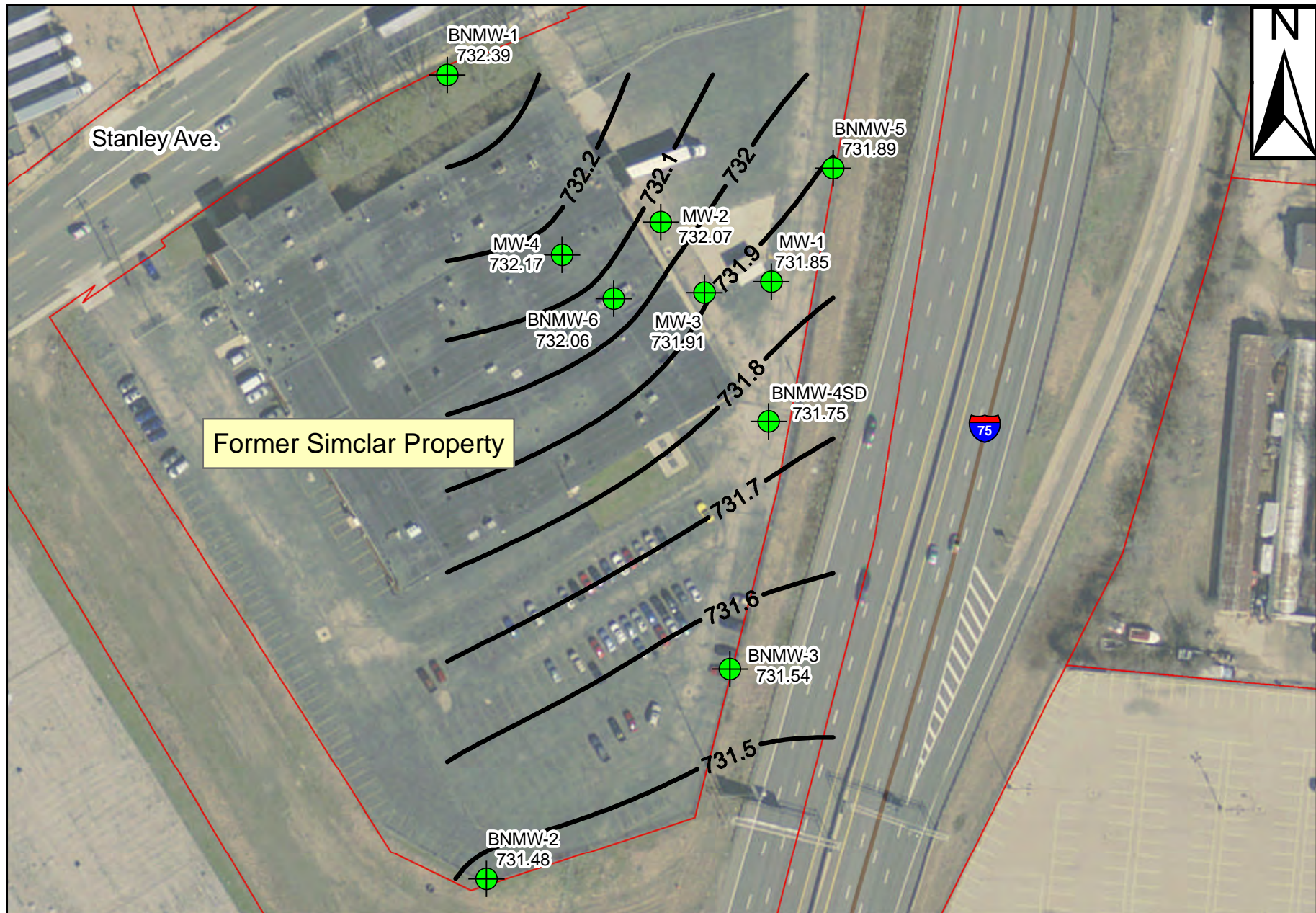




Figure 8: Former Simclar Property, Dayton: Shallow Ground Water Flow,  
Measured February 14, 2017



0 100 200  
Feet



Shallow monitoring wells



Contour interval: 0.1 feet mean sea level

BNMW-4 could not be surveyed  
due to poor signal

Deeper nested pairs not contoured



Figure 9: Engineering Evaluation Cost Analysis For Behr Dayton Thermal Products Plant, Shallow Potentiometric Surface Map (AECOM, 2014)

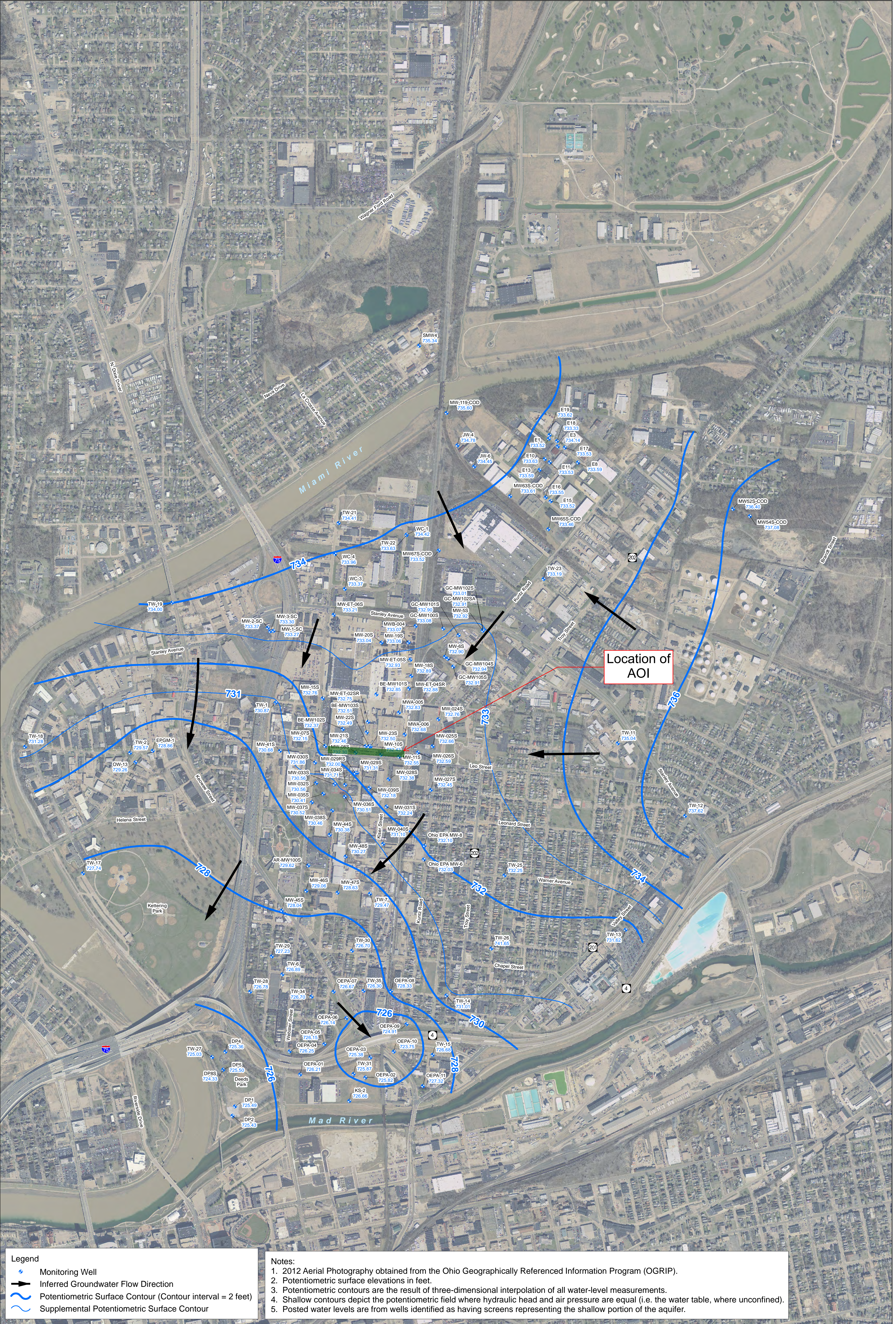


Figure 1  
Shallow Potentiometric Surface Map, June 27, 2013  
Behr Dayton Thermal System VOC Plume Site  
Dayton, Ohio



## **Appendix B**

### Tables



Table 1: 1994 Bowser-Morner Ground Water and Soil Results

Ground Water Sample Detections:			Soil Sample Detections:			
May 1994			May 1994			
Sample ID	Detected Chemical	Concentration (µg/L)	Sample ID	Depth (feet)	Detected Chemical	Concentration (µg/kg)
MW-1	1,1,1-Trichloroethane	850	B1-7A	13-15'	1,1,1-Trichloroethane	51
	1,1,2-Trichloroethane	5.10			Trichloroethene	80
	1,1-Dichloroethane	330			Arsenic	2200
	Tetrachloroethene	12.0			Cadmium	130
	Trichloroethene	680			Chromium	18000
	1,1-Dichloroethene	28.0			Lead	2400
	Barium	110			Barium	16000
	Selenium	3.00				
MW-2	1,1,1-Trichloroethane	210	B1-10A	19-21'	1,1,1-Trichloroethane	850
	1,1-Dichloroethane	75.0			1,1-Dichloroethane	210
	Tetrachloroethene	22.0			Tetrachloroethene	110
	Trichloroethene	170			Trichloroethene	2700
	Arsenic	4.00			1,1-Dichloroethene	19
	Barium	140			Arsenic	1300
	Selenium	2.00			Cadmium	170
					Chromium	23000
MW-3	1,1,1-Trichloroethane	1000	B2-1A	1-3'	Lead	2900
	1,1-Dichloroethane	170			Barium	13000
	Trichloroethene	750			1,1,1-Trichloroethane	11
	1,1-Dichloroethene	33.0			1,1-Dichloroethane	30
	trans-1,2-Dichloroethene	6.80			1,2-Dichloroethane	13
	Barium	110			Acetone	250
					Ethylbenzene	1700
MW-4	1,1,1-Trichloroethane	77.0	B2-7A	13-15'	Toluene	51
	1,1-Dichloroethane	26.0			Xylene	8700
	Trichloroethene	46.0			Arsenic	6000
	Arsenic	2.00			Cadmium	760
	Barium	190			Chromium	30000
					Lead	29000
					Barium	77000
					Cyanide	390
					1,1,1-Trichloroethane	1200
					1,2-Dichloroethane	130
					Tetrachloroethene	580
					Trichloroethene	1800
					Arsenic	9100
					Cadmium	130
					Chromium	45000
					Lead	5100
		Barium	12000			
		B3-6A	11-13'	1,1,1-Trichloroethane	140	
				Tetrachloroethene	12	
				Trichloroethene	88	
				Arsenic	3100	
				Cadmium	210	
				Chromium	3600	
				Lead	2200	
				Barium	18000	
		B3-8A	15-17'	1,1,1-Trichloroethane	7300	
				1,1-Dichloroethane	300	
				Tetrachloroethene	13	
				Trichloroethene	12900	
				1,1-Dichloroethene	130	
				trans-1,2-Dichloroethene	17	
				Arsenic	6800	
				Cadmium	310	
		Chromium	48000			
		Lead	4700			
		Barium	15000			
		B4-1A	4-6'	1,1,1-Trichloroethane	45	
				Tetrachloroethene	14	
				Tetrachloroethene	82	
				Arsenic	3100	
				Cadmium	21000	
				Chromium	97000	
				Lead	11000	
				Barium	230000	
		B4-5A	13-15'	Cyanide	3500	
				1,1,1-Trichloroethane	15	
				Tetrachloroethene	12	
				Arsenic	1600	
				Cadmium	150	
				Chromium	3900	
				Lead	2000	
				Barium	24000	

Table 2: 2012 Phase II Expanded Site Assessment Ground Water and Soil Results

Ground Water Sample Detections: December 2012			Soil Sample Detections: December 2012			
Sample ID	Detected Chemical	Concentration (µg/L)	Sample ID	Depth (feet)	Detected Chemical	Concentration (µg/kg)
MW1	1,1,1-Trichloroethane	156	SB1	19-20'	1,1,1-Trichloroethane	6650
	1,1,2-Trichloroethane	0.908J			1,1-Dichloroethane	155J
	1,1-Dichloroethane	54.4			Tetrachloroethene	1460
	Tetrachloroethene	<b>6.91</b>			Trichloroethene	12500
	Trichloroethene	<b>215</b>		20-21'	1,1,1-Trichloroethane	3720
	1,1-Dichloroethane	5.27			1,1-Dichloroethane	155J
	cis-1,2-Dichloroethene	3.75			Tetrachloroethene	824
	trans-1,2-Dichloroethene	0.273			Trichloroethene	8770
MW1D	1,1,1-Trichloroethane	155	SB2	16-17'	Chlorobenzene	59.9J
	1,1,2-Trichloroethane	1.00J			1,1,1-Trichloroethane	3010
	1,1-Dichloroethane	55.3			Tetrachloroethene	180
	Tetrachloroethene	<b>6.90</b>			Trichloroethene	4390
	Trichloroethene	<b>217</b>		14.5'	Methylene chloride	347J
	1,1-Dichloroethane	5.31			1,1,1-Trichloroethane	36100
	cis-1,2-Dichloroethene	3.82			1,1-Dichloroethane	317J
	trans-1,2-Dichloroethene	0.340			Tetrachloroethene	1940
MW2	1,1,1-Trichloroethane	11.7	SB3	16'	Trichloroethene	38700
	1,1-Dichloroethane	6.30			1,1,1-Trichloroethane	43500
	Tetrachloroethene	<b>6.83</b>			1,1-Dichloroethane	1210
	Trichloroethene	<b>21.6</b>			Tetrachloroethene	127J
	cis-1,2-Dichloroethene	2.42			Trichloroethene	63500
MW3	1,1,1-Trichloroethane	<b>302</b>	SB3	17'	1,1-Dichloroethane	351J
	1,1-Dichloroethane	45.1			cis-1,2-Dichloroethene	94.5J
	Tetrachloroethene	<b>12.8</b>			1,1,1-Trichloroethane	14300
	Trichloroethene	<b>237</b>			1,1-Dichloroethane	633
	1,1-Dichloroethane	<b>8.16</b>			Trichloroethene	26300
	cis-1,2-Dichloroethene	3.75			1,1-Dichloroethane	97.0J
	trans-1,2-Dichloroethene	0.393			Methylene chloride	174J
MW4	1,1,1-Trichloroethane	3.84	SB4	20'	1,1,1-Trichloroethane	73.9J
	1,1-Dichloroethane	0.471			1,1-Dichloroethane	1550
	Tetrachloroethene	0.898			Trichloroethene	9740
	Trichloroethene	<b>8.92</b>			cis-1,2-Dichloroethene	205J
GW1	Benzene	0.354J	SB4	20'	1,1,1-Trichloroethane	34300
	cis-1,2-Dichloroethene	2.16J			1,1-Dichloroethane	4610
	Toluene	0.450J			Tetrachloroethene	4770
GW2	Benzene	0.247J	SB4	20'	Trichloroethene	60500
	Toluene	0.723J			1,1-Dichloroethane	373J
					cis-1,2-Dichloroethene	193J

J - The analyte was positively identified, but the quantitation was below the reporting limit

**Bold** - Chemical detected above the maximum contaminant level

J - The analyte was positively identified, but the quantitation was below the reporting limit

## **Appendix C**

### Well Logs

749693

SECTION/LOT No.  
(CIRCLE ONE)

PROPERTY ADDRESS 1784 Stanley Ave.  
(ADDRESS OF WELL LOCATION A)

LOCATION OF PROPERTY ~~XXXXXXXXXX~~ Stanley Ave and I-75, SW corner

## CONSTRUCTION DETAILS

CASING			Borehole Diameter			GROUT			
1 Diameter	2 in.	Length	9.5 ft.	Wall Thickness	in.	Material	Volclay	Volume used	125 lbs
2 Diameter	in.	Length	ft.	Wall Thickness	in.	Method of installation	Tremie		
Type:	1 Steel	1 Galv.	1 PVC	1		Depth: placed from	0.0	ft. to	5.0
	2	2	2	2 Other		GRAVEL PACK (Filter Pack)			
Joints:	1 Threaded	1 Welded	1 Solvent	1		Material	Quartz sand	Volume used	3 ft. <sup>3</sup>
	2	2	2	2 Other		Method of installation	poured		
Liner:	Length	Type	Wall Thickness	in.		Depth: placed from	21.0	ft. to	9.0
SCREEN						Pitless Device <input type="checkbox"/> Adapter <input type="checkbox"/> Preassembled unit			
Type (wire wrapped, louvered, etc.)	Slotted		Material	PVC					
Length	10	ft.	Diameter	2	in.	Use of Well Monitoring <input type="checkbox"/> Rotary <input type="checkbox"/> Cable <input checked="" type="checkbox"/> Augered <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Other			
Set between	21.0	ft. and	11.0	ft.	Slot	.010			
Date of Completion						5-4-94			

# WELL LOG\*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Show color, texture, hardness, and formation:  
sandstone, shale, limestone, gravel, clay, sand, etc.

	From	To
Fill	0.0	2.0
Gray Clay, some silt	2.0	7.0
Sand and gravel	7.0	21.0

Water at 14.25

## WELL TEST

☒ Bailing ☐ Pumping\* ☐ Other \_\_\_\_\_  
Test rate \_\_\_\_\_ gpm Duration of test \_\_\_\_\_ hrs  
Drawdown \_\_\_\_\_ ft  
Measured from: ☒ top of casing ☐ ground level ☐ Other \_\_\_\_\_  
Static Level (depth to water) 14.24 ft. Date: 5-11-94  
Quality (clear, cloudy, taste, odor) cloudy

\*(Attach a copy of the pumping test record, per section 1521.05, ORC)

## PUMP

Type of pump None Capacity \_\_\_\_\_ gpm  
Pump set at \_\_\_\_\_ ft.  
Pump installed by \_\_\_\_\_

### SKETCH SHOWING WELL LOCATION

Show distances well lies from numbered state highways, street intersections, county roads, etc.

A hand-drawn map of the Stanley area. The map is oriented with North (N) at the top, South (S) at the bottom, West (W) on the left, and East (E) on the right. A large rectangle on the left is labeled "Globe Motors". To the right of this rectangle is a smaller rectangle labeled "Shed". Further to the right is a circle with a cross inside, labeled "Well". On the far right, a vertical line is labeled "I-75". The word "Stanley" is written at the top center of the map.

\*If additional space is needed to complete well log, use next consecutively numbered form.

DNR 7802.90

Drilling Firm: Bowser-Morner  
Address: 4518 Taylorsville Rd.  
City, State, Zip: Dayton OH 45424

Signed Stephen D. Sommer  
Date 5-20-94  
ODH Registration Number \_\_\_\_\_

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.  
ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 1939 FOUNTAIN SQ. DRIVE, COLS., OHIO 43224  
Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

749694

SECTION/LOT No.  
(CIRCLE ONE)

PROPERTY ADDRESS 1784 Stanley Avenue  
(ADDRESS OF WELL LOCATION A)

LOCATION OF PROPERTY ~~15111~~ Stanley Ave and I 75, S W corner

## CONSTRUCTION DETAILS

CASING			Borehole Diameter			GROUT			
① Diameter	2 in.	Length	8.5 ft.	Wall Thickness	in.	Material	Volclay	Volume used	75 lbs
② Diameter	in.	Length	ft.	Wall Thickness	in.	Method of installation	Tremie		
Type:	① Steel	① Galv.	<input checked="" type="checkbox"/> PVC	①		Depth: placed from	5.0	ft. to	60
	②	②	②	② Other		GRAVEL PACK (Filter Pack)			
Joints:	<input checked="" type="checkbox"/> Threaded	① Welded	① Solvent	①		Material	Quartz	Volume used	2 ft <sup>3</sup>
	②	②	②	② Other		Method of installation	poured		
Liner: Length		Type		Wall Thickness	in.	Depth: placed from	19.0	ft. to	2.0
SCREEN						Pitless Device	<input type="checkbox"/> Adapter	<input type="checkbox"/> Preassembled unit	
Type (wire wrapped, louvered, etc.)	slotted		Material	PVC		Use of Well	Monitoring		
Length	10	ft.	Diameter	2	in.	<input type="checkbox"/> Rotary	<input type="checkbox"/> Cable	<input checked="" type="checkbox"/> Augered	<input type="checkbox"/> Driven
Set between	19.0	ft. and	9.0	ft.	Slot	.010			
						Date of Completion	5-4-94		

# WELL LOG\*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Show color, texture, hardness, and formation:  
sandstone, shale, limestone, gravel, clay, sand, etc.

Fill	0.0	3.0
brown clay, some silt	3.0	8.0
brown sand and gravel	8.0	19.0

Water at 12.0

## WELL TEST

☒ Bailing ☐ Pumping\* ☐ Other \_\_\_\_\_  
Test rate \_\_\_\_\_ gpm Duration of test \_\_\_\_\_ hrs.  
Drawdown \_\_\_\_\_ ft.  
Measured from: ☒ top of casing ☐ ground level ☐ Other \_\_\_\_\_  
Static Level (depth to water) 11.14 ft. Date: 5-11-94  
Quality (clear, cloudy, taste, odor) cloudy

\*(Attach a copy of the pumping test record, per section 1521.05, ORC)

## PUMP

Type of pump None Capacity \_\_\_\_\_ gpm  
Pump set at \_\_\_\_\_ ft.  
Pump installed by \_\_\_\_\_

### SKETCH SHOWING WELL LOCATION

Show distances well lies from numbered state highways, street intersections, county roads, etc.

A hand-drawn map of a property. At the top, a horizontal line is labeled "Stanley". Above this line is the letter "N". To the left of the main area is the letter "W". On the left side, there is a large rectangle labeled "Globe Motors". In the center-right area, there is a small circle labeled "well" and a small rectangle labeled "Shed". Below the "Shed" is the letter "S". On the right side, there is a vertical line labeled "INS" and "E" at the bottom right corner.

\*If additional space is needed to complete well log, use next consecutively numbered form.

DNR 7802.90

Signed Stephen D. Sommer  
Date 5-20-94  
ODH Registration Number \_\_\_\_\_

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

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5073

# WELL LOG AND DRILLING REPORT

TYPE OR USE PEN  
SELF TRANSCRIBING  
PRESS HARD

Ohio Department of Natural Resources, Division of Water  
1939 Fountain Square Drive, Columbus, Ohio 43224 Phone (614) 265-6739

749695

Permit Number \_\_\_\_\_

COUNTY Montgomery

TOWNSHIP Dayton

SECTION/LOT No. \_\_\_\_\_  
(CIRCLE ONE)

OWNER/BUILDER Globe Industries  
(CIRCLE ONE OR BOTH)

PROPERTY ADDRESS 1784 Stanley Ave  
(ADDRESS OF WELL LOCATION A)

LOCATION OF PROPERTY BLANK/BLANK Stanley Avenue and I-75, SW corner

## CONSTRUCTION DETAILS

<b>CASING</b>		Borehole Diameter <u>3</u> in.	<b>GROUT</b>
1 Diameter <u>2</u> in.	Length <u>8.5</u> ft.	Wall Thickness _____ in.	Material <u>Volclay</u> Volume used <u>75 lbs</u>
2 Diameter _____ in.	Length _____ ft.	Wall Thickness _____ in.	Method of installation <u>Tremie</u>
Type: 1 <input type="checkbox"/> Steel 1 <input type="checkbox"/> Galv. 1 <input checked="" type="checkbox"/> PVC 1 <input type="checkbox"/> Other _____		Depth: placed from <u>5.0</u> ft. to <u>1.0</u> ft.	<b>GRAVEL PACK (Filter Pack)</b>
Joints: 1 <input checked="" type="checkbox"/> Threaded 1 <input type="checkbox"/> Welded 1 <input type="checkbox"/> Solvent 1 <input type="checkbox"/> Other _____		Material <u>Quartz</u> Volume used <u>3 ft<sup>3</sup></u>	Method of installation <u>poured</u>
Liner: Length _____ Type _____ Wall Thickness _____ in.		Depth: placed from <u>19.0</u> ft. to <u>2.0</u> ft.	<b>Pitless Device</b> <input type="checkbox"/> Adapter <input type="checkbox"/> Preassembled unit
<b>SCREEN</b>		Use of Well <u>Monitoring</u>	<input type="checkbox"/> Rotary <input type="checkbox"/> Cable <input checked="" type="checkbox"/> Augered <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Other _____
Type (wire wrapped, louvered, etc.) <u>Slotted</u> Material <u>PVC</u>		Date of Completion <u>5-5-94</u>	
Length <u>10</u> ft. Diameter <u>2</u> in.			
Set between <u>19.0</u> ft. and <u>9.0</u> ft. Slot <u>.010</u>			

## WELL LOG\*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Show color, texture, hardness, and formation:  
sandstone, shale, limestone, gravel, clay, sand, etc.

From	To
0.0	1.0
1.0	7.5
7.5	14.5
14.5	19.0

Fill  
clay, some silt  
Brown sand and gravel  
Gray fine sand  
  
Water at 14.5

## WELL TEST

☒ Bailing ☐ Pumping\* ☐ Other \_\_\_\_\_

Test rate \_\_\_\_\_ gpm Duration of test \_\_\_\_\_ hrs.

Drawdown \_\_\_\_\_ ft.

Measured from: ☒ top of casing ☐ ground level ☐ Other \_\_\_\_\_

Static Level (depth to water) 12.08 ft. Date: 5-11-94

Quality (clear, cloudy, taste, odor) cloudy

\*(Attach a copy of the pumping test record, per section 1521.05, ORC)

## PUMP

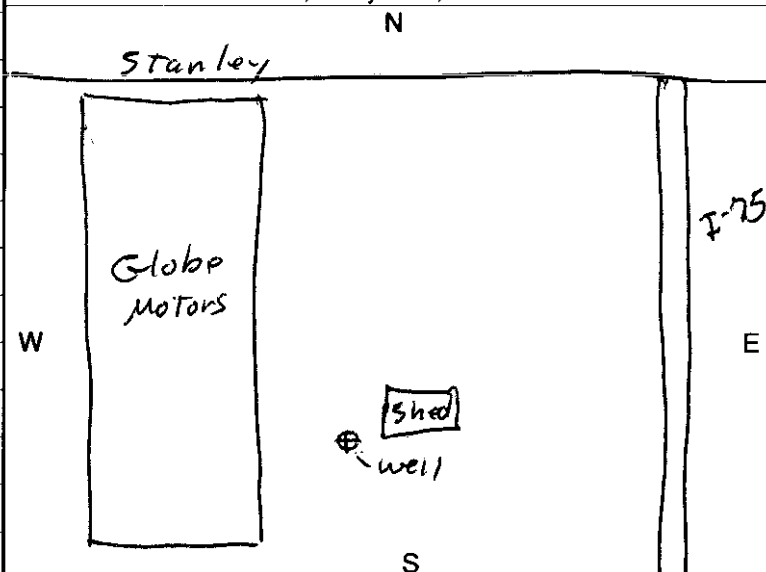
Type of pump None Capacity \_\_\_\_\_ gpm

Pump set at \_\_\_\_\_ ft.

Pump installed by \_\_\_\_\_

## SKETCH SHOWING WELL LOCATION

Show distances well lies from numbered state highways,  
street intersections, county roads, etc.



\*If additional space is needed to complete well log, use next consecutively numbered form.

DNR 7802.90

Drilling Firm Bowser - Morner

Address 4518 Taylorsville Rd.

City, State, Zip Dayton, OH 45424

Signed Stephen D. Bowser

Date 5-20-94

ODH Registration Number \_\_\_\_\_

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

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5073

# WELL LOG AND DRILLING REPORT

TYPE OR USE PEN  
SELF TRANSCRIBING  
PRESS HARD

Ohio Department of Natural Resources, Division of Water  
1939 Fountain Square Drive, Columbus, Ohio 43224 Phone (614) 265-6739

749696

Permit Number

COUNTY Montgomery

TOWNSHIP Dayton

SECTION/LOT No.  
(CIRCLE ONE)

OWNER/BUILDER Globe Industries  
(CIRCLE ONE OR BOTH)

PROPERTY ADDRESS 1784 Stanley Ave.  
(ADDRESS OF WELL LOCATION A)

LOCATION OF PROPERTY Stanley Ave and I-75, SW corner

## CONSTRUCTION DETAILS

<b>CASING</b>		Borehole Diameter <u>3</u> in.	<b>GROUT</b>
<input checked="" type="checkbox"/> Diameter <u>2</u> in.	Length <u>10</u> ft.	Wall Thickness _____ in.	Material <u>Cement/bentonite</u> Volume used _____
<input type="checkbox"/> Diameter _____ in.	Length _____ ft.	Wall Thickness _____ in.	Method of installation <u>Tremie</u>
Type: <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Galv. <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Other _____		Depth: placed from <u>5.0</u> ft. to <u>10.0</u> ft.	<b>GRAVEL PACK (Filter Pack)</b>
Joints: <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Welded <input type="checkbox"/> Solvent <input type="checkbox"/> Other _____		Material <u>Natural/Quartz</u> Volume used <u>1.5 ft<sup>3</sup></u>	Method of installation <u>poured</u>
Liner: Length _____ Type _____ Wall Thickness _____ in.		Depth: placed from <u>20.0</u> ft. to <u>10.0</u> ft.	<b>Pitless Device</b> <input type="checkbox"/> Adapter <input type="checkbox"/> Preassembled unit
<b>SCREEN</b>		Use of Well <u>Monitoring</u>	<input type="checkbox"/> Rotary <input type="checkbox"/> Cable <input checked="" type="checkbox"/> Augered <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Other _____
Type (wire wrapped, louvered, etc.) <u>Slotted</u> Material <u>PVC</u>		Date of Completion _____	
Length <u>10</u> ft. Diameter <u>2</u> in.			
Set between <u>20.0</u> ft. and <u>10.0</u> ft. Slot <u>.010</u>			

## WELL LOG\*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Show color, texture, hardness, and formation:  
sandstone, shale, limestone, gravel, clay, sand, etc.

	From	To
<u>Fill</u>	<u>0.0</u>	<u>7.0</u>
<u>Brown Clay, Some silt</u>	<u>7.0</u>	<u>10.5</u>
<u>Sand and gravel</u>	<u>10.5</u>	<u>20.5</u>

## WELL TEST

☒ Bailing ☐ Pumping\* ☐ Other \_\_\_\_\_

Test rate \_\_\_\_\_ gpm Duration of test \_\_\_\_\_ hrs.

Drawdown bailed dry ft.

Measured from: ☒ top of casing ☐ ground level ☐ Other \_\_\_\_\_

Static Level (depth to water) 13.2 ft. Date: 5-11-94

Quality (clear, cloudy, taste, odor) cloudy

\*(Attach a copy of the pumping test record, per section 1521.05, ORC)

## PUMP

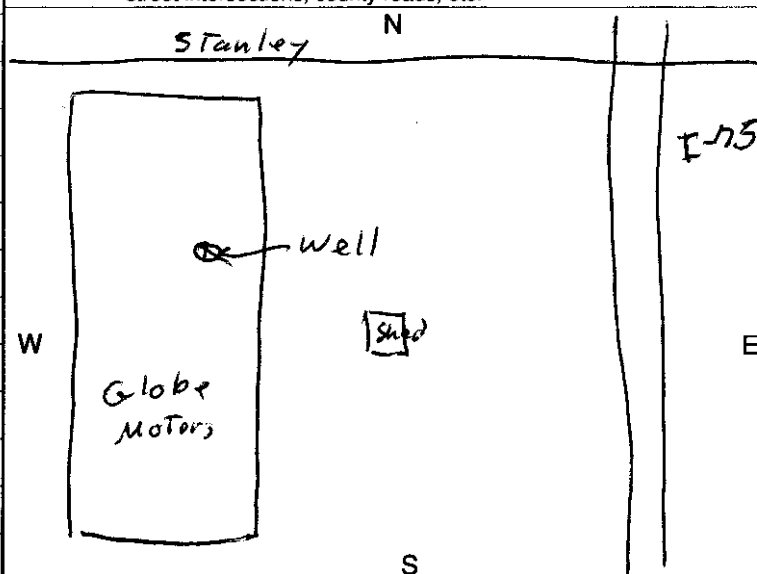
Type of pump None Capacity \_\_\_\_\_ gpm

Pump set at \_\_\_\_\_ ft.

Pump installed by \_\_\_\_\_

## SKETCH SHOWING WELL LOCATION

Show distances well lies from numbered state highways,  
street intersections, county roads, etc.



\*If additional space is needed to complete well log, use next consecutively numbered form.

DNR 7802.90

Drilling Firm Bawser-Morner

Signed Stephen D. Sommer

Address 4518 Taylorsville Rd.

Date 5-20-94

City, State, Zip Dayton, Ohio 45424

ODH Registration Number \_\_\_\_\_

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

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5073

(NOT TO SCALE)

Sheet

1

of

**BURGESS & NIPLE**  
Engineers ■ Environmental Scientists

15



**Former Simclar - 1784 Stanley Ave., Dayton, OH**

WELL NO.

**BNMW-1**

Total Depth

18.0 feet

Sheet

2

of

2

**BURGESS & NIPLE**  
Engineers ■ Environmental Scientists

Elev. in feet amsl	Depth in Feet	Well Installation Notes	Well / Boring Description	General Geologic Log	Sample Description	Drilling Observations			
						Interval	Blow Counts	Recovery	Field Screen (ppm)
	15		<div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	SW/GW	15.7-16.0' Gray Silty Clay (CL/TILL), slightly moist, hard, trace very coarse gravel and sand, low plasticity.				
				CL	16.0-18.0' SAA, trace sand seams ~0.01', thick throughout, moist, very hard, no plasticity.	16-18'	5-14-14-15	1.0 ft.	0.8
		18.0' - PVC end cap.							
					Boring terminated at 18.0 feet below ground surface.				
	20								
	25								
	30								
	35								

# LOCATION SKETCH

(NOT TO SCALE)



Ground Surface Elevation: 746.95  
 Top of Casing Elevation: 746.70  
 Elevation Units: feet above mean sea level

WELL NO.  
 Total Depth  
 Sheet

**BNMW-2**

22.0 feet

1

of

2

**BURGESS & NIPLE**  
 Engineers ■ Environmental Scientists

Project: <b>Former Simclar - 1784 Stanley Ave., Dayton, OH</b>	Start Drilling: Time: 11:30am Date: 4/14/2015
Project No.: 53939	Complete Drilling: Time: 12:15pm Date: 4/14/2015
Logged By: Michael Akins	Start Installation: Time: 12:20pm Date: 4/14/2015
Drilling Contractor: Wright's Drilling	Complete Installation: Time: 1:00pm Date: 4/14/2015

Driller's Name: Brian, Densil, and Jason Wright	Date	Time	Depth to Water	Notes
Drill Rig Type: CME 75				
Drilling Fluids Used (gal): 0				
Sampling Methods: 2" x 2' SS Split-Spoon				
Borehole Diameter (inches): 8.25				
X / Y Coordinates: North: 655,148.9327 East: 1,495,129.4136				
Casing Type, Joint Type, and Diameter: 2" diameter, Schedule 40 PVC				
Hammer Weight: 140 lbs.				
Drop: 30" Auto Hammer				
Location Description: Southern edge of parking lot.				

Interval	Blow Counts	Recovery	Field Screen (ppm)
0-2'	2-4-4-6	0.7 ft.	1.3
2-4'	1-2-2-2	1.7 ft.	0.6
4-6'	0-0-2-2	1.6 ft.	0.6
6-8'	0-1-2-4	1.7 ft.	0.6
8-10'	4-6-4-5	1.2 ft.	1.7
10-12'	5-8-8-6	1.5 ft.	2.3
12-14'	6-6-7-12	0.7 ft.	2.0
14-16'	10-15-18-16	0.6 ft.	1.8

Sample Description	Interval	Blow Counts	Recovery	Field Screen (ppm)
0.0-0.2' Asphalt.	0-2'	2-4-4-6	0.7 ft.	1.3
0.2-2.0' Gray brown Sand and Gravel (FILL), dry, loose, poorly sorted, fine to very coarse.				
2.0-2.4' Dark orange brown Sandy Clay (FILL), moist, very soft, low plasticity trace slag.	2-4'	1-2-2-2	1.7 ft.	0.6
2.4-4.0' Dark brown Sandy Clay/Clayey Sand (FILL), very moist, very soft, some fine to medium sand, trace broken white snail shells.				
4.0-5.5' SAA (FILL), trace slag at 7.5' bgs.	4-6'	0-0-2-2	1.6 ft.	0.6
5.5-8.0' Dark brown Sandy Clay/Clayey Sand (CL/SC), very moist, very soft, some fine to medium sand, trace broken white snail shells.	6-8'	0-1-2-4	1.7 ft.	0.6
8.0-10.0' Light orange yellow gray brown Gravelly Sand (SW), slightly moist, loose, poorly sorted, fine to very coarse, limestone gravel.	8-10'	4-6-4-5	1.2 ft.	1.7
10.0-12.0' SAA (SW), slightly moist, compact to loose.	10-12'	5-8-8-6	1.5 ft.	2.3
12.0-14.0' Gray to brown Sand and Gravel (SW/GW), wet, loose, fine to very coarse, poorly sorted, trace limestone cobbles.	12-14'	6-6-7-12	0.7 ft.	2.0
14.0-16.0' SAA (SW/GW), brown, wet, loose, trace silt, green and gray cobbles.	14-16'	10-15-18-16	0.6 ft.	1.8

Well / Boring Description	General Geologic Log
ASPHALT	
FILL	
CL/SC	
SW	
SW/GW	

Well Installation Notes	Well / Boring Description
Flushmount Well	
8" diameter steel protector.	
0.0-1.0' - 2' x 2' concrete pad.	
1.0-8.0' - Bentonite grout.	
0.5-12.0' - 2" diameter, Schedule 40 PVC riser.	
8.0-10.0' - Medium bentonite chips hydrated with potable water.	
10.0-18.0' - Clean No. 5 silica sand. 3.5 (100 lbs.) bags.	
12.0-22.0' - 2" diameter, Schedule 40 PVC well screen with 0.010" factory cut slots.	

Depth in Feet	Elev. in feet amsl
0	
5	
10	
15	

**Former Simclar - 1784 Stanley Ave., Dayton, OH**

WELL NO.

**BNMW-2**

Total Depth

22.0 feet

Sheet

2

of

2

**BURGESS & NIPLE**  
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Elev. in feet amsl	Depth in Feet	Well Installation Notes	Well / Boring Description	General Geologic Log	Sample Description	Drilling Observations			
						Interval	Blow Counts	Recovery	Field Screen (ppm)
	15		-	SW/GW					
				GW	16.0-17.0' Gray to brown Sand and Gravel (GW), wet, loose, fine to very coarse, poorly sorted, trace limestone cobbles.	16-18'	15-18-17-12	1.0 ft.	--
					17.0-18.0' SAA, (GW), with gray limestone cobbles.				
				SW	18.0-19.6' Gray Brown Sand (SW), wet, fine to very coarse, poorly sorted, loose, trace silt.	18-20'	0-2-11-9	1.9 ft.	2.4
	20			GW	19.6-20.0' Gray brown Sand and Gravel (GW), wet, loose, fine to very coarse, poorly sorted, trace silt.				
					20.0-22.0' Sandy Gravel (GW), wet, loose, fine to coarse gravel, fine to coarse sand, trace sand, trace cobbles.	20-22'	--	0.9 ft.	1.4
		22.0' - PVC end cap.							
					<b>Boring terminated at 22.0 feet below ground surface</b>				
	25								
	30								
	35								

(NOT TO SCALE)

### BNMW-3

1



**BURGESS & NIPLE**  
Engineers ■ Environmental Scientists

Project:	Former Simclar - 1784 Stanley Ave., Dayton, OH	Start Drilling:	Time: 2:50pm	Date: 4/14/2015
Project No.:	53939	Complete Drilling:	Time: 3:40pm	Date: 4/14/2015
Logged By:	Michael Akins	Start Installation:	Time: 3:45pm	Date: 4/14/2015
Drilling Contractor:	Wright's Drilling	Complete Installation:	Time: 4:10pm	Date: 4/14/2015

Driller's Name:	Brian, Densil, and Jason Wright		Date	Time	Depth to Water	Notes
Drill Rig Type:	CME 75	Drilling Fluids Used (gal): 0				
Sampling Methods:	2" x 2' SS Split-Spoon	Borehole Diameter (inches): 8.25				
X / Y Coordinates:	North: 655,148.9327 East: 1,495,129.4136					

Casing Type, Joint Type, and Diameter:	2" diameter, Schedule 40 PVC				
Hammer Weight:	140 lbs.	Drop:	30" Auto Hammer		
Location Description:	Southeast edge of parking lot.				

Sample Description	Drilling Observations			Field
	Interval	Blow Counts	Recovery	Screen (ppm)

0.0-0.2'	Asphalt.	0-2'	2-3-7-6	1.2 ft.	2.0
0.2-2.0'	Black and very dark gray clay, sand, cinders, foundry sand, slag (FILL), moist, very soft, trace white glass and pink brick.				

2.0-4.0'	SAA (FILL), slightly moist, trace coal.	2-4'	2-2-1-1	1.3 ft.	1.0


4.0-6.0'	SAA (FILL), with some orange sand.	4-6'	1-1-1-1	0.6 ft.	1.0

6.0-8.0'	SAA (FILL), black, very moist to wet.	6-8'	0-0-1-1	0.6 ft. 0.9


8.0-10.0'	Dark olive gray Sandy Clay (CL), very moist, very soft, low plasticity, some fine to very coarse sand, trace white snail shells, trace red brown	8-10'	0-0-1-2	2.0 ft.	0.8
-----------	--	-------	---------	---------	-----

mottling/discoloration (decayed roots).				

10.0-11.8'	SAA (CL), trace gravel, very moist, very soft.	10-12'	0-1-9-10	1.6 ft.	1.1

11.8-12.0'	Gray brown Gravelly Sand (SW), slightly moist, loose, poorly sorted,				
	fine to very coarse, trace gray limestone cobble.	12-14'	4-11-11-12	1.2 ft.	2.1

12.0-13.8'	SAA (SW), gray brown, slightly moist, loose.				
13.8-14.0'	SAA (SW) very moist				

13.0-14.0'	SAA (SW), very moist.				
14.0-16.0'	SAA (SW), wet, brown, few gray limestone cobbles, trace silt.	14-16'	6-9-11-9	1.3 ft.	3.0

Ground Surface Elevation: 748.12  
 Top of Casing Elevation: 747.84  
 Elevation Units: feet above mean sea level

Elev. in feet amsl	Depth in Feet	Well Installation Notes	Well / Boring Description	General Geologic Log
	0	Flushmount Well		ASPHALT
		8" diameter steel protector.		
		0.0-1.0' - 2' x 2' concrete pad.		
		1.0-9.0' - Bentonite grout.		
		0.5-13.0' - 2" diameter, Schedule 40 PVC riser.		FILL
	5			
		9.0-11.0' - Medium bentonite chips hydrated with potable water.		CL
	10			
		11.0-20.0' - Clean No. 5 silica sand. 3 (100 lbs.) bags.		
		13.0-20.0' - 2" diameter, Schedule 40 PVC well screen with 0.010" factory cut slots.		SW
	15			

Total Depth  
Sheet

### BNMW-3

20.0 feet

2

of

2

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[illegible]

(NOT TO SCALE)

## BNMW-3D

1

2

**BURGESS & NIPLE**  
Engineers ■ Environmental Scientists

Project:	Former Simclar - 1784 Stanley Ave., Dayton, OH	Start Drilling:	Time: 10:20am	Date: 4/21/2015
Project No.:	53939	Complete Drilling:	Time: 10:45am	Date: 4/21/2015
Logged By:	Michael Akins	Start Installation:	Time: 10:50am	Date: 4/21/2015
Drilling Contractor:	Cascade Drilling	Complete Installation:	Time: 11:20am	Date: 4/21/2015

Ground Surface Elevation:	<u>748.08</u>
Top of Casing Elevation:	<u>747.75</u>
Elevation Units:	feet above mean sea level

Driller's Name:	Densel			Date	Time	Depth to Water	Notes
Drill Rig Type:	Sonic	Drilling Fluids Used (gal):	50				
Sampling Methods:	Core Barrel	Borehole Diameter (inches):	6				
X / Y Coordinates:	North: --	East: --					

Casing Type, Joint Type, and Diameter:	2" diameter, Schedule 40 PVC				
Hammer Weight:	NA	Drop:	NA		
Location Description:	Southeast edge of parking lot.				

[illegible]

**Former Simclar - 1784 Stanley Ave., Dayton, OH**

WELL NO.

**BNMW-3D**

Total Depth

35.0 feet

Sheet

2

of

2

**BURGESS & NIPLE**  
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Elev. in feet amsl	Depth in Feet	Well Installation Notes	Well / Boring Description	General Geologic Log	Sample Description	Drilling Observations			Field Screen (ppm)
						Interval	Blow Counts	Recovery	
15				SW	15.0-17.0' SAA (SW), gray brown, wet, few silt, trace cobbles.	15-25'	--	11.0 ft.	
									1.2
20				CL / TILL	17.0-23.0' Gray Silty Clay (CL/TILL), slightly moist to moist, very hard/stiff, trace very coarse sand and fine to coarse gravel, trace cobble, glacial till.				0.8
25		20.0-23.0' - Medium bentonite chips hydrated with potable water.		CL / TILL					1.3
									(20-23')
30		23.0-35.0' - Clean No. 5 silica sand.		SW	23.0-25.0' Gray Sand (SW), wet, loose, fine to very coarse, poorly sorted, no silt.				8.3
35		25.0-35.0' - 2" diameter, Schedule 40 PVC well screen with 0.010" factory cut slots.		SW	25.0-35.0' SAA (SW), gray, wet, trace fine gravel.	25-35'	--	10.0 ft.	4.4
									(25-26')
									8.2
									8.4
35		35' - PVC end cap.							15.2
									37.8

# LOCATION SKETCH

(NOT TO SCALE)



Ground Surface Elevation: 745.18  
Top of Casing Elevation: 744.89  
Elevation Units: feet above mean sea level

WELL NO.  
Total Depth  
Sheet

**BNMW-4**

19.5 feet

1

of

2

**BURGESS & NIPLE**  
Engineers ■ Environmental Scientists

Project: <b>Former Simclar - 1784 Stanley Ave., Dayton, OH</b>	Start Drilling: Time: 8:58am Date: 4/15/2015
Project No.: 53939	Complete Drilling: Time: 10:00am Date: 4/15/2015
Logged By: Michael Akins	Start Installation: Time: 10:05am Date: 4/15/2015
Drilling Contractor: Wright's Drilling	Complete Installation: Time: 10:40am Date: 4/15/2015

Driller's Name: Brian, Densil, and Jason Wright	Date	Time	Depth to Water	Notes
Drill Rig Type: CME 75				
Drilling Fluids Used (gal): 0				
Sampling Methods: 2" x 2' SS Split-Spoon	Borehole Diameter (inches): 8.25			
X / Y Coordinates: North: 655,330.9797	East: 1,495,171.8958			
Casing Type, Joint Type, and Diameter: 2" diameter, Schedule 40 PVC				
Hammer Weight: 140 lbs.	Drop: 30" Auto Hammer			
Location Description: East edge of property and south of former chemical storage area.				

Sample Description	Drilling Observations				Field Screen (ppm)
	Interval	Blow Counts	Recovery		
0.0-0.2' Asphalt.	0-2'	5-12-10-5	0.6 ft.		3.5
0.2-2.0' Black foundry sand (FILL), moist, very soft, fine sand.					
2.0-4.0' SAA (FILL), trace slag, trace gravel, slightly moist.	2-4'	5-3-2-8	1.0 ft.		4.6
4.0-5.5' SAA (FILL), moist.	4-6'	1-2-1-1	1.8 ft.		2.9
5.5-6.0' Dark olive brown Gray Silty Clay (CL), moist, very soft, low plasticity, trace red orange mottling.	6-8'	1-2-3-5	1.4 ft.		1.2
6.0-6.4' SAA (CL), no mottling.					
6.4-8.0' Olive gray brown Clayey Sand (SC), very moist, very soft, little clay, fine to very coarse sand, trace fine gravel.					
8.0-9.0' SAA (SC), very moist.	8-10'	0-6-12-12	1.5 ft.		2.0
9.0-10.0' Light brown Gravelly Sand (SW), dry, loose, poorly sorted, fine to very coarse, trace limestone cobbles.					
10.0-11.6' SAA (SW), brown gray color, wet, trace silt.	10-12'	8-10-8-8	1.0 ft.		2.7
11.6-12.0' Orange brown Sandy Gravel with Cobbles (GW), wet, loose, fine to very coarse, poorly sorted, trace silt.	12-14'	3-11-11-11	1.1 ft.		2.5
12.0-14.0' SAA (GW), orange brown to gray brown in color.					
14.0-15.0' SAA (GW), orange brown color.	14-16'	5-4-3-2	1.0 ft.		2.9

Elev. in feet amsl	Depth in Feet	Well Installation Notes	Well / Boring Description	General Geologic Log
	0	Flushmount Well		ASPHALT
		8" diameter steel protector.		
		0.0-1.0' - 2' x 2' concrete pad.		
		1.0-5.5' - Medium bentonite chips.		
		0.5-9.5' - 2" diameter, Schedule 40 PVC riser.		
	5			
		5.5-7.5' - Medium bentonite chips hydrated with potable water.		
		7.5-19.5' - Clean No. 5 silica sand. 3 (100 lbs.) bags.		
	10			
		9.5-19.5' - 2" diameter, Schedule 40 PVC well screen with 0.010" factory cut slots.		
	15			



## 2

[illegible]

# LOCATION SKETCH

(NOT TO SCALE)



Ground Surface Elevation: 745.00  
 Top of Casing Elevation: 744.63  
 Elevation Units: feet above mean sea level

WELL NO.  
 Total Depth  
 Sheet

**BNMW-4SD**

35.0 feet

1

of

2

**BURGESS & NIPLE**  
 Engineers ■ Environmental Scientists

Project:	Former Simclar - 1784 Stanley Ave., Dayton, OH	Start Drilling:	Time: 10:30am	Date: 4/22/2015
Project No.:	53939	Complete Drilling:	Time: 10:55am	Date: 4/22/2015
Logged By:	Michael Akins	Start Installation:	Time: 11:10am	Date: 4/22/2015
Drilling Contractor:	Cascade Drilling	Complete Installation:	Time: 11:50am	Date: 4/22/2015

Driller's Name:	Densel	Date	Time	Depth to Water	Notes
Drill Rig Type:	Sonic				
Drilling Fluids Used (gal):	50				
Sampling Methods:	Core Barrel	Borehole Diameter (inches):	6		
X / Y Coordinates:	North: --	East:	--		

Casing Type, Joint Type, and Diameter:	2" diameter, Schedule 40 PVC
Hammer Weight:	NA
Drop:	NA
Location Description:	East edge of property and south of former chemical storage area.

Interval	Sample Description	Drilling Observations			Field Screen (ppm)
		Interval	Blow Counts	Recovery	
0.0-0.2'	Asphalt.	0-5'	--	3.0 ft.	0.8
0.2-0.8'	Brown sand and gravel (FILL), moist, loose, poorly sorted, fine to very coarse.				
0.8-5.0'	Black foundry sand (FILL) with gravel and slag, trace glass and orange brick.				3.1
					4.7
5.0-7.7'	SAA (FILL), very moist, very soft.	5-15'	--	9.5'	
					1.0
7.7-8.7'	Gray brown Sandy Clay (CL), very moist, very soft, low plasticity, few orange brown mottling, trace gravel.				0.8
8.7-9.0'	Gray brown Clayey Sand (SC), very moist, very soft, fine to very coarse, trace gravel.				
9.0-15.0'	Brown to yellow orange brown Sand and Gravel (SW), wet, loose, poorly sorted, fine to very coarse, few cobbles, trace silt.				1.5
					2.2
					1.6

ASPHALT  
 FILL  
 CL  
 SC  
 SW

Well / Boring Description

General Geologic Log

Well Installation Notes

Depth in Feet

Elev. in feet amsl

0  
 5  
 10  
 15

# Former Simclar - 1784 Stanley Ave., Dayton, OH

WELL NO.

**BNMW-4SD**

Total Depth

35.0 feet

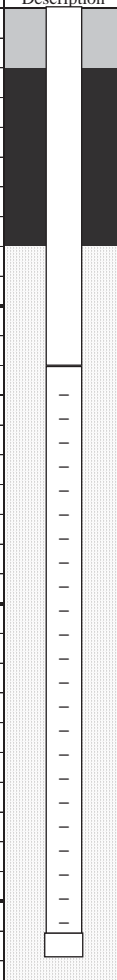

Sheet

2

of

2

**BURGESS & NIPLE**  
Engineers ■ Environmental Scientists

Elev. in feet amsl	Depth in Feet	Well Installation Notes	Well / Boring Description	General Geologic Log	Sample Description	Drilling Observations			Field Screen (ppm)
						Interval	Blow Counts	Recovery	
	15			SW	15.0-20.0' Gray Gravelly Sand (SW), wet, loose, fine to very coarse, poorly sorted, trace silt.	15-25'	--	3.0 ft.	
		16-19' - Hydrated medium bentonite chips.							8.0
	20								6.7
		19-31.5' - Clean No. 5 silica sand.							
	25			GW	20.0-25.0' Gray Silty Gravel (GW), wet, loose, fine to very coarse, poorly sorted, cobbles, pushed boulder which caused very low recovery.				8.0
		21-31' - 2" diameter, Schedule 40 PVC well screen with 0.010" factory cut slots.							
									3.3
									55.0
					25.0-27.0' Gray Sandy Gravel (GW), wet, loose, fine to very coarse, poorly sorted.	25-35'	--	11.0 ft.	
									38.0
					27.0-31.5' Gray Sand and Gravel (GW), wet, loose, fine to very coarse, poorly sorted, trace limestone cobbles.				
									16.0
	30								16.0
		31' - PVC end cap.							
	35	31.5-35' - Hydrated medium bentonite chips.		CL / TILL	31.5-33.5' Brown gray Silty Clay (CL / TILL), slightly moist, very hard, no plasticity, trace very coarse sand and fine gravel.				1.7 (31.5-33.5')
				SW	33.5-34.5' Gray brown sand (SW), wet, loose, fine to very coarse, few gravel, trace silt.				1.9
				ML	34.5-35.0' Brown gray Sandy Silt (ML), very moist, very soft, some fine sand.				
		Boring terminated at 35'.							



**Former Simclar - 1784 Stanley Ave., Dayton, OH**

WELL NO.

**BNMW-4D**

Total Depth

55.0 feet

Sheet

2

of

3

**BURGESS & NIPLE**  
Engineers ■ Environmental Scientists

Elev. in feet amsl	Depth in Feet	Well Installation Notes	Well / Boring Description	General Geologic Log	Sample Description	Drilling Observations			Sample Collected
						Interval	Blow Counts	Recovery	
	15			GW	15.0-25.0' SAA (GW), limestone boulder at 17.0'.	15-25'		8.0 ft.	
									11.9
									16.9
	20								19.7
									21.4
	25			SW	25.0-29.0' Gray Gravelly Sand (SW), wet, loose, poorly sorted, fine to very coarse, trace silt.	25-35'		10.5 ft.	
									32.5
									63.3
	30			GW	29.0-30.0' Gray Sandy Gravel (GW), wet, loose, trace limestone boulder at 30'.				
				SW	30.0-32.0' Gray Gravelly Sand (SW), wet, loose, poorly sorted, fine to very coarse.				68.8
				CL / TILL	32.0-35.0' Brown gray Silty Clay (CL / TILL), dry, very hard, no plasticity, few fine to very coarse sand, trace gravel.				15.2
	35								

**Former Simclar - 1784 Stanley Ave., Dayton, OH**

WELL NO.

**BNMW-4D**

Total Depth

55.0 feet

Sheet

3

of

3

**BURGESS & NIPLE**  
Engineers ■ Environmental Scientists

Elev. in feet amsl	Depth in Feet	Well Installation Notes	Well / Boring Description	General Geologic Log	Sample Description	Drilling Observations			Sample Collected
						Interval	Blow Counts	Recovery	
	35		CL / TILL		35.0-37.6' SAA (CL / TILL), slightly moist, trace limestone cobbles.	35-45'		16.0 ft.	1.8
									(35-36')
									2.8
		36.5-39.5' - Hydrated medium bentonite chips.							
	40				37.6-41.7' SAA (CL / TILL), gray, dry, very hard, no plasticity.				1.6
	45	39.5-44.0' - Clean No. 5 silica sand.	SW						
		41.5-43.5' - 2" diameter, Schedule 40 PVC well screen with 0.010" factory cut slots.			41.7-42.5' Gray brown Sand (SW), wet, loose, fine to very coarse, poorly sorted, trace fine gravel.				12.1
									(41.7-42.5')
		43.5' - PVC end cap.			42.5-45.0' Gray Shale (SH), dry, very hard, highly weathered, few fine sand, trace limestone.				0.4
	50								(42.5-44.0')
		44-55' - Hydrated medium bentonite chips.							0.6
					45.0-55.0' SAA (SH), with trace gray limestone interbedding. Limestone contains many shell fossils (brachiopods).	45-55'		10.0 ft.	
									0.1
	55		SH						
									0.2
									0.6
									0.1
									0.4
									(54-55')
					Boring terminated at 55 feet below ground surface.				



# LOCATION SKETCH

(NOT TO SCALE)



Ground Surface Elevation: 746.56  
 Top of Casing Elevation: 746.13  
 Elevation Units: feet above mean sea level

WELL NO.  
 Total Depth  
 Sheet

**BNMW-5**

21.5 feet

1

of

2

**BURGESS & NIPLE**  
 Engineers ■ Environmental Scientists

Project: <b>Former Simclar - 1784 Stanley Ave., Dayton, OH</b>	Start Drilling: Time: 10:55am Date: 4/15/2015
Project No.: 53939	Complete Drilling: Time: 11:25am Date: 4/15/2015
Logged By: Michael Akins	Start Installation: Time: 11:30am Date: 4/15/2015
Drilling Contractor: Wright's Drilling	Complete Installation: Time: 12:10pm Date: 4/15/2015

Driller's Name: Brian, Densil, and Jason Wright	Date	Time	Depth to Water	Notes
Drill Rig Type: CME 75				
Drilling Fluids Used (gal): 0				
Sampling Methods: 2" x 2' SS Split-Spoon				
Borehole Diameter (inches): 8.25				
X / Y Coordinates: North: -- East: --				
Casing Type, Joint Type, and Diameter: 2" diameter, Schedule 40 PVC				
Hammer Weight: 140 lbs. Drop: 30" Auto Hammer				
Location Description: Northeast of former chemical storage area near eastern property line.				

Interval	Blow Counts	Recovery	Field Screen (ppm)
0-2'	3-6-7-3	1.7 ft.	6.0
2-4'	3-8-8-5	1.6 ft.	33.0
4-6'	6-4-6-6	2.0 ft.	26.4
6-8'	2-2-1-5	2.0 ft.	1.0
8-10'	0-1-2-4	0.9 ft.	1.0
10-12'	7-8-12-12	0.8 ft.	2.5
12-14'	3-5-4-4	1.3 ft.	1.7
14-16'	5-11-10-14	1.5 ft.	2.1

Sample Description	Interval	Blow Counts	Recovery	Field Screen (ppm)
0.0-0.2' Asphalt.	0-2'	3-6-7-3	1.7 ft.	6.0
0.2-0.6' Brown gray sand and gravel (FILL), dry, loose.				
0.6-2.0' Black foundry sand (FILL), slightly moist, loose, very soft, trace slag, trace gravel.				
2.0-4.0' SAA (FILL), some slag, trace orange brick, trace glass, slightly moist, loose/soft.	2-4'	3-8-8-5	1.6 ft.	33.0
4.0-6.0' SAA (FILL), moist, trace slag.	4-6'	6-4-6-6	2.0 ft.	26.4
6.0-7.0' Black foundry sand (FILL), moist, very soft, trace slag, trace glass.	6-8'	2-2-1-5	2.0 ft.	1.0
7.0-7.7' Dark olive gray Clayey Sand (SC), very moist, very soft, fine to very coarse sand, trace red brown mottling.				
7.7-8.0' Brown Gravelly Sand (SW), slightly moist, loose, poorly sorted, fine to very coarse.	8-10'	0-1-2-4	0.9 ft.	1.0
8.0-9.0' Dark olive Gray Silty Clay (CL), moist, very soft, low plasticity, trace red brown mottling.				
9.0-9.5' Brown gray Clayey Sand (SC), wet, loose/soft, poorly sorted, fine to very coarse, some clay.	10-12'	7-8-12-12	0.8 ft.	2.5
9.5-10.0' Brown Gravelly Sand (SW), dry, loose, poorly sorted, fine to very coarse.				
10.0-12.0' SAA (SW), gray brown color, trace gray limestone cobbles.				
12.0-12.4' Brown gray Silty Gravelly Sand (SM), wet, very soft, fine to very coarse sand, fine to coarse gravel, few silt.	12-14'	3-5-4-4	1.3 ft.	1.7
12.4-14.0' Brown gray Gravelly Sand (SW), wet, loose, fine to very coarse, poorly sorted, trace limestone cobbles.				
14.0-16.0' SAA (SW), light gray brown with trace limestone cobbles, wet, loose, trace silt.	14-16'	5-11-10-14	1.5 ft.	2.1

Well / Boring Description	General Geologic Log
ASPHALT	
FILL	
SC	
sw	
CL	
SC	
SW	
SM	
SW	

Well Installation Notes	Well / Boring Description
Flushmount Well	
8" diameter steel protector.	
0.0-1.0' - 2' x 2' concrete pad.	
1.0-7.5' - Bentonite grout.	
0.5-11.5' - 2" diameter, Schedule 40 PVC riser.	
7.5-9.5' - Medium bentonite chips hydrated with potable water.	
9.5-21.5' - Clean No. 5 silica sand. 3 (100 lbs.) bags.	
11.5-21.5' - 2" diameter, Schedule 40 PVC well screen with 0.010" factory cut slots.	

Depth in Feet	Elev. in feet amsl
0	
5	
10	
15	

**Former Simclar - 1784 Stanley Ave., Dayton, OH**

WELL NO.

**BNMW-5**

Total Depth

21.5 feet

Sheet

2

of

2

**BURGESS & NIPLE**  
Engineers ■ Environmental Scientists

Elev. in feet amsl	Depth in Feet	Well Installation Notes	Well / Boring Description	General Geologic Log	Sample Description	Drilling Observations			
						Interval	Blow Counts	Recovery	Field Screen (ppm)
	15								
				SW	16.0-17.6' SAA (SW), wet.	16-18'	3-12-9-8	1.5 ft.	1.6
					17.6-18.0' Brown Sand (SP), wet, loose/very soft, well sorted fine sand.				
				SP	18.0-20.0 SAA (SP), brown, wet.	18-20'	0-3-6-8	1.2 ft.	2.0
	20								
				SW	20.0-21.5' Gray Brown Sand (SW), wet, loose, fine to medium sand, trace coarse sand, poorly sorted.	20-22'	4-9-9	1.5 ft.	2.7
		21.5' - PVC end cap.							
					<b>Boring terminated at 21.5 feet below ground surface.</b>				
	25								
	30								
	35								

LOCATION SKETCH

(NOT TO SCALE)

WELL NO.

BNMW-5D

Total Depth

30.0 feet

Sheet

1

of

2

BURGESS & NIPLE

Engineers ■ Environmental Scientists

Project: Former Simclar - 1784 Stanley Ave., Dayton, OH

Start Drilling: Time: 8:45am Date: 4/23/2015

Project No.: 53939

Complete Drilling: Time: 9:10am Date: 4/23/2015

Logged By: Michael Akins

Start Installation: Time: 9:12am Date: 4/23/2015

Drilling Contractor: Cascade Drilling

Complete Installation: Time: 9:40am Date: 4/23/2015

Ground Surface Elevation: 746.51

Top of Casing Elevation: 746.22

Elevation Units: feet above mean sea level

Driller's Name: Densel

Drill Rig Type: Sonic

Drilling Fluids Used (gal): 50

Sampling Methods: Core Barrel

Borehole Diameter (inches): 6

X / Y Coordinates: North: -- East: --

Casing Type, Joint Type, and Diameter: 2" diameter, Schedule 40 PVC

Hammer Weight: NA Drop: NA

Location Description: Northeast of former chemical storage area near eastern property line.

Date

Time

Depth to Water

Notes

Elev. in feet amsl

Depth in Feet

Well Installation Notes

Well / Boring Description

General Geologic Log

Casing Type, Joint Type, and Diameter: 2" diameter, Schedule 40 PVC

Hammer Weight: NA Drop: NA

Location Description: Northeast of former chemical storage area near eastern property line.

0

5

10

15

Flushmount Well

8" diameter steel protector.

0.0-1.0' - 2' x 2' concrete pad.

0.5-20.0' - 2" diameter, Schedule 40 PVC riser.

1.0-15.0' - Bentonite grout.

ASPHALT

FILL

CL

SC

SW

GW

Sample Description

Drilling Observations

Field Screen (ppm)

Interval

Blow Counts

Recovery

Screen (ppm)

0.0-0.2' Asphalt.

0.2-1.0' Brown sand and gravel (FILL), dry, loose, poorly sorted, fine to very coarse.

1.0-5.0' Black foundry sand (FILL), moist, very soft, trace gravel, slag, orange brick, and wood.

5.0-6.5' SAA (FILL), very moist.

6.5-7.5' Dark gray Sandy Clay (CL), very moist, very soft, some fine to medium sand, low plasticity, trace white snail shells.

7.5-9.5' SAA (CL), gray brown, trace red mottling.

9.5-10.0' Brown Clayey Sand (SC), very moist, very soft, fine to very coarse, trace gravel.

10.0-11.5' Brown Sand (SW), wet, loose, poorly sorted, fine to very coarse, trace gravel and white snail shells.

11.5-15.0' Brown gray Sandy Gravel (GW), wet, loose, poorly sorted, fine to very coarse, few cobbles.

0-5'

--

6.0 ft.

1.6

5-15'

--

7.0 ft.

1.3

1.1

1.2

1.3

1.2

(14-15')

**Former Simclar - 1784 Stanley Ave., Dayton, OH**

WELL NO.

**BNMW-5D**

Total Depth

30.0 feet

Sheet

2

of

2

**BURGESS & NIPLE**  
Engineers ■ Environmental Scientists

Elev. in feet amsl	Depth in Feet	Well Installation Notes	Well / Boring Description	General Geologic Log	Sample Description	Drilling Observations			
						Interval	Blow Counts	Recovery	Field Screen (ppm)
	15	15-18' - Hydrated medium bentonite chips.		GW	15.0-25.0' No recovery. Driller stated they pushed a boulder with the core barrel.	15-25'	--	0.0 ft.	--
					Geology Log inferred from nearby soil boring BNMW-5 ABANDONED, which is located approximately 8 feet east of BNMW-5.				
	20	18-30' - Clean No. 5 silica sand.		SW					
	25	20-30' - 2" diameter, Schedule 40 PVC well screen with 0.010" factory cut slots.		GW					
	30			GP	25.0-28.0' Brown gray Silty Sandy Gravel (GW), wet, loose, grades fine to coarse with depth.	25-30'	--	2.5 ft.	1.7
									3.2
	35	30' - PVC end cap.			28.0-30.0' Brown gray Silty Sandy Gravel (GP), wet, loose, little to some silt, very coarse gravel, cobbles and boulders at 30'.				2.8
					<b>Boring terminated at 30.0 feet below ground surface.</b>				

(NOT TO SCALE)

Sheet

1

of

3

**BURGESS & NIPLE**  
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[illegible]

**Former Simclar - 1784 Stanley Ave., Dayton, OH**

WELL NO.

Total Depth  
Sheet

**BNMW-5D - ABANDONED**

42.0 feet

2

of

3

**BURGESS & NIPLE**  
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Elev. in feet amsl	Depth in Feet	Well Installation Notes	Well / Boring Description	General Geologic Log	Sample Description	Drilling Observations			Sample Collected
						Interval	Blow Counts	Recovery	
	15			GW	15.0-18.0' Boulders (GW), wet, loose, few sand and gravel, limestone and granite.	15-20'	--	5.0 ft.	
									1.1
	20			SW	18.0-20.0' Orange brown Sand (SW), wet, loose, fine to very coarse, trace silt.				0.7
	25			GW	20.0-25.0' Orange brown Sandy Gravel (GW), wet, loose, fine to very coarse, poorly sorted, trace silt.	20-25'	--	5.0 ft.	3.2
									2.9
									3.3
									(24-25')
	30			SW	25.0-30.0' Brown Gravelly Sand ( SW), wet, loose, fine to very coarse, some fine gravel, trace silt, boulder at 30'.	25-30'	--	5.0 ft.	6.4
									(25-28')
									6.7
	35			CL / TILL	30.0-32.0' Gray Silty Clay (CL / TILL), dry, very hard, no plasticity, trace gravel, trace limestone which contains shell fossils.	30-34'	--	5.0 ft.	0.8
				SH	32.0-34.0' Gray Shale (SH), dry, very hard, highly weathered.				0.6
					34.0-42.0' SAA (SH), dry, highly weathered, trace limestone interbedding.	34-42'	--	9.0 ft.	--



Former Simclar - 1784 Stanley Ave., Dayton, OH

WELL NO.

Total Depth  
Sheet

**BNMW-5D - ABANDONED**

42.0 feet

3

of

3

**BURGESS & NIPLE**  
Engineers ■ Environmental Scientists

Elev. in feet amsl	Depth in Feet	Well Installation Notes	Well / Boring Description	General Geologic Log	Sample Description	Drilling Observations			Sample Collected
						Interval	Blow Counts	Recovery	
	35			SH					
	40								
					Boring terminated at 42 feet below ground surface.				
	45								
	50								
	55								

(NOT TO SCALE)

## BNMW-6

1

2

**BURGESS & NIPLE**  
Engineers ■ Environmental Scientists

Project:	Former Simclar - 1784 Stanley Ave., Dayton, OH	Start Drilling:	Time: 9:00am	Date: 4/24/2015
Project No.:	53939	Complete Drilling:	Time: 9:20am	Date: 4/24/2015
Logged By:	Michael Akins	Start Installation:	Time: 9:30am	Date: 4/24/2015
Drilling Contractor:	EnviroCore, Ltd.	Complete Installation:	Time: 11:15pm	Date: 4/24/2015

Ground Surface Elevation:	<u>744.96</u>
Top of Casing Elevation:	<u>744.63</u>
Elevation Units:	feet above mean sea level

Driller's Name:	Jerry and Collin			Date	Time	Depth to Water	Notes
Drill Rig Type:	Geoprobe 6622	Drilling Fluids Used (gal):	0				
Sampling Methods:	Direct Push/Macrocore	Borehole Diameter (inches):	8.25				
X / Y Coordinates:	North: --	East: --					

Casing Type, Joint Type, and Diameter:	2" diameter, Schedule 40 PVC				
Hammer Weight:	NA	Drop:	NA		
Location Description:	Southwest corner of former plating room inside the building.				

Sample Description	Drilling Observations	Field
--------------------	-----------------------	-------

	Interval	Blow Counts	Recovery	Screen (ppm)
0 0-0 5' - Concrete	0-5'	--	3 0 ft	2 8

0.5-4.0' - Brown clay with few sand and trace gravel and cobbles (FILL), slightly moist, firm to soft, no plasticity, trace metal piece at 3.0'.			
---	--	--	--

				3.1


4.0-4.5' - Very dark brown Silty Clay (CL), slightly moist, hard, no plasticity.				2.0
--	--	--	--	-----

4.2.5-5.0' - S&A (CL), brown.			
5.0.9-2' - Brown Sandy Clay (CL), slightly moist to moist with depth, some fine sand, no plasticity, trace white snail shells.	5-9'	--	4.0 ft.

no plasticity, trace white stain stems.				2.0


				2.1

9.2-10.0' - Gray brown Clayey Gravelly Sand (SC), moist, soft, few clay, fine to very coarse sand, fine to coarse gravel, trace silt.	9-13'	--	3.2 ft.	
10.0-12.0' - Gray-brown Clayey Gravelly Sand (SC), moist, soft, few clay, fine to very coarse sand, fine to coarse gravel, trace silt.				1.5

10.0-15.0' - Gray brown Gravelly Sand (SW), wet, loose, poorly sorted, fine to very coarse, fine to coarse gravel, trace silt.				1.7

				1.5

13.0-17.0' - SAA (SW), brown, wet, trace limestone cobbles, trace silt.	13-17'	--	3.5 ft.	
---	--------	----	---------	--

				1.2

--	--	--	--	--

Total Depth  
Sheet

BNMW-6

20.0 feet

---

2

of

2

**BURGESS & NIPLE**  
Engineers ■ Environmental Scientists

[illegible]

**Appendix D**  
Target Distance Maps and Tables

Non Responsive



0 0.35 0.7 1.4 Miles

Ohio State Plane South

01/04/2017



## Former Simclar Facility -- Montgomery County

### Proximity to Population and Public Ground Water Systems



Simclar Site



Active PWS Wells



Source Water Protection Area



State Threatened Species

#### Ground Water Target Distance (miles)



0.25



0.5



1



2

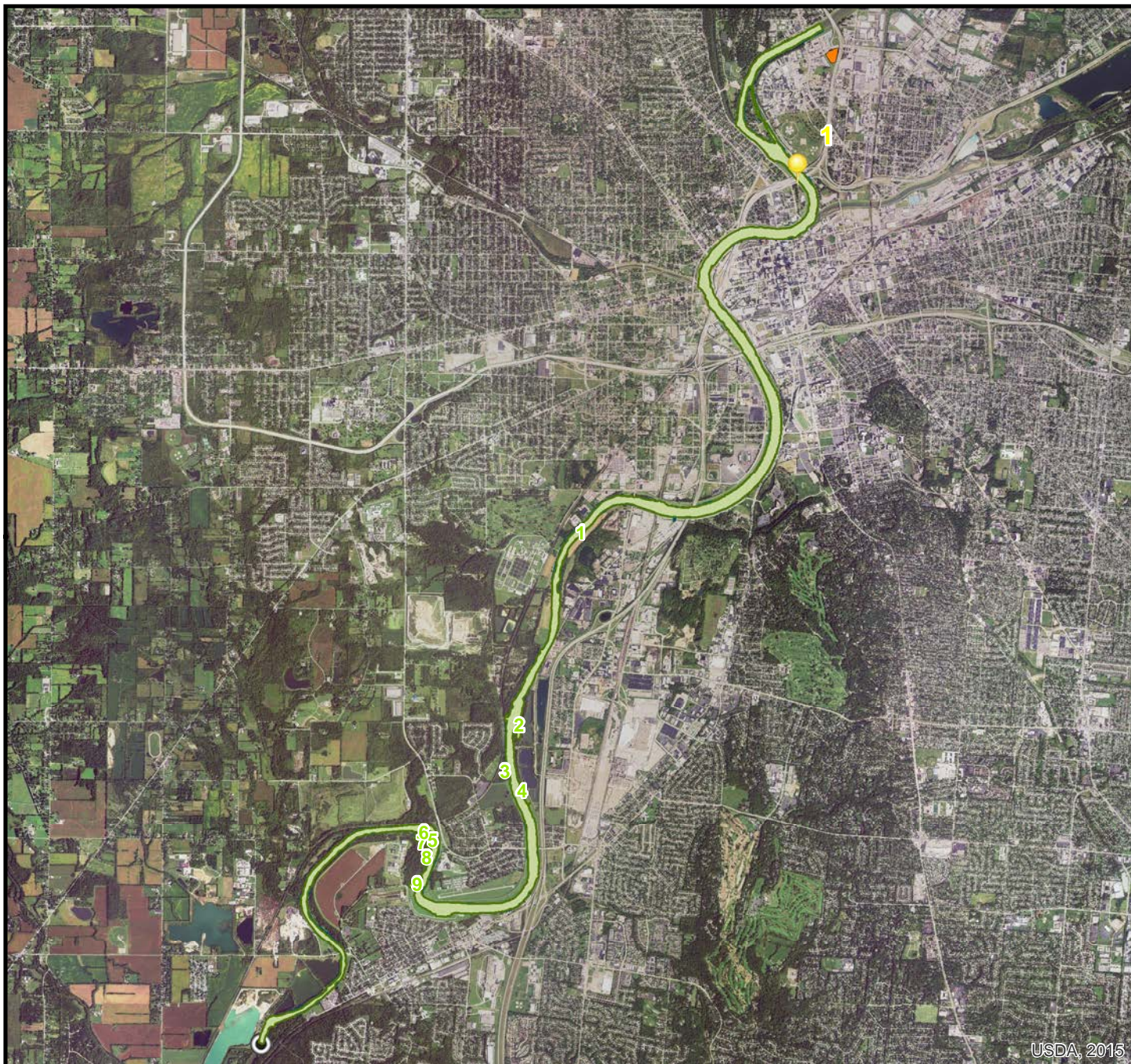


3



4





USDA, 2015



0 0.35 0.7 1.4 Miles

Ohio State Plane South

01/04/2017



## Former Simclar Facility -- Montgomery County

### Natural Heritage Data and Surface Water Systems



Simclar Site



Wetlands



Surface Water Target Distance Limit



State Threatened Species



**Former Simclar Facility  
Montgomery County**

**Population Data**

RADIUS (MILES)	TOTAL	WHITE	BLACK	INDIAN	ASIAN	HAWAIIAN	OTHER
<b>0.00-0.25</b>	<b>27</b>	25	0	0	0	0	1
<b>0.25-0.50</b>	<b>658</b>	593	45	0	2	0	2
<b>0.50-1.0</b>	<b>5,006</b>	4,229	520	8	37	7	74
<b>1.0-2.0</b>	<b>28,761</b>	13,244	13,876	90	174	14	385
<b>2.0-3.0</b>	<b>48,416</b>	26,016	19,560	137	302	16	939
<b>3.0-4.0</b>	<b>63,476</b>	37,032	23,115	164	696	29	640
<b>TOTAL</b>	<b>146,344</b>	<b>81,139</b>	<b>57,117</b>	<b>399</b>	<b>1,211</b>	<b>66</b>	<b>2,041</b>

**Total Population within 1-mile Radius: 5,691**

**Former Simclar Facility  
Montgomery County**

Page 5

**Active Surface Water Intakes**

MAP ID	SYSTEM ID	SYSTEM NAME	WATER BODY	LINEAR DISTANCE (MILES)	POPULATION SERVED
<b>NONE</b>					

**Active Ground Water System Wells**

MAP ID	SYSTEM ID	SYSTEM NAME and WELL NAME	SYSTEM TYPE	LINEAR DISTANCE (MILES)	POPULATION SERVED
1	OH5703512	Dayton Public Water System Dayton City - Miami PI - Well 014r	Community	0.872	142,000
2	OH5703512	Dayton P.W.S. -- Miami PI Well 012r	Community	0.895	Counted under #1
3	OH5703512	Dayton P.W.S. -- Miami PI Well 015r	Community	1.001	Counted under #1
4	OH5703512	Dayton P.W.S. -- Miami PI Well 010r	Community	1.026	Counted under #1
5	OH5703512	Dayton P.W.S. -- Miami PI Well 00i2	Community	1.126	Counted under #1
6	OH5703512	Dayton P.W.S. -- Miami PI Well 011r	Community	1.171	Counted under #1
7	OH5703512	Dayton P.W.S. -- Miami PI Well 00i5	Community	1.295	Counted under #1
8	OH5703512	Dayton P.W.S. -- Miami PI Well 009r	Community	1.300	Counted under #1
9	OH5703512	Dayton P.W.S. -- Miami PI Well 00i1	Community	1.300	Counted under #1
10	OH5703512	Dayton P.W.S. -- Miami PI Well 0008	Community	1.365	Counted under #1
11	OH5703512	Dayton P.W.S. -- Miami PI Well 0037	Community	1.423	Counted under #1
12	OH5703512	Dayton P.W.S. -- Miami PI Well 0020	Community	1.440	Counted under #1
13	OH5703512	Dayton P.W.S. -- Miami PI Well 0017	Community	1.462	Counted under #1
14	OH5703512	Dayton P.W.S. -- Miami PI Well 016r	Community	1.471	Counted under #1
15	OH5703512	Dayton P.W.S. -- Miami PI Well 0013	Community	1.485	Counted under #1
16	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0049	Community	1.510	Counted under #1

# Former Simclar Facility Montgomery County

MAP ID	SYSTEM ID	SYSTEM NAME and WELL NAME	SYSTEM TYPE	LINEAR DISTANCE	POPULATION SERVED
17	OH5703512	Dayton P.W.S. -- Miami PI Well 0021	Community	1.548	Counted under #1
18	OH5703512	Dayton P.W.S. -- Miami PI Well 0030	Community	1.554	Counted under #1
19	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0048	Community	1.575	Counted under #1
20	OH5703512	Dayton P.W.S. -- Miami PI Well 019	Community	1.583	Counted under #1
21	OH5703512	Dayton P.W.S. -- Miami PI Well 0007	Community	1.584	Counted under #1
22	OH5703512	Dayton P.W.S. -- Miami PI Well 018r	Community	1.630	Counted under #1
23	OH5703512	Dayton P.W.S. -- Miami PI Well 0029	Community	1.636	Counted under #1
24	OH5703512	Dayton P.W.S. -- Miami PI Well 0022	Community	1.654	Counted under #1
25	OH5703512	Dayton P.W.S. -- Miami PI Well 0006	Community	1.674	Counted under #1
26	OH5703512	Dayton P.W.S. -- Miami PI Well 0031	Community	1.685	Counted under #1
27	OH5703512	Dayton P.W.S. -- Miami PI Well 0032	Community	1.710	Counted under #1
28	OH5703512	Dayton P.W.S. -- Miami Plant Well 002r (WELL_NUM 38077)	Community	1.745	Counted under #1
28	OH5703512	Dayton P.W.S. -- Miami Plant Well 002r (WELL_NUM 15880)	Community	1.745	Counted under #1
29	OH5703512	Dayton P.W.S. -- Miami PI Well 0028	Community	1.784	Counted under #1
30	OH5703512	Dayton P.W.S. -- Miami PI Well 0033	Community	1.837	Counted under #1
31	OH5703512	Dayton P.W.S. -- Miami PI Well 0027	Community	1.916	Counted under #1
32	OH5703512	Dayton P.W.S. -- Miami PI Well 0023	Community	1.926	Counted under #1
33	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0046	Community	1.953	Counted under #1
34	OH5703512	Dayton P.W.S. -- Miami PI Well 034	Community	1.962	Counted under #1
35	OH5703512	Dayton P.W.S. -- Miami PI Well 0003	Community	1.976	Counted under #1
36	OH5746012	First Dayton Free Will Baptist Well 0002	Non-Community	1.988	30
37	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0045	Community	2.004	Counted under #1
38	OH5703512	Dayton P.W.S. -- Miami PI Well 0024	Community	2.025	Counted under #1
39	OH5703512	Dayton P.W.S. -- Miami PI Well 0001	Community	2.046	Counted under #1
40	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0044	Community	2.057	Counted under #1
41	OH5703512	Dayton P.W.S. -- Miami PI Well 035	Community	2.082	Counted under #1

# Former Simclar Facility Montgomery County

MAP ID	SYSTEM ID	SYSTEM NAME and WELL NAME	SYSTEM TYPE	LINEAR DISTANCE	POPULATION SERVED
42	OH5703512	Dayton P.W.S. -- Miami PI Well 0025	Community	2.110	Counted under #1
43	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0042	Community	2.133	Counted under #1
44	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0043	Community	2.165	Counted under #1
45	OH5703512	Dayton P.W.S. -- Miami PI Well 0026	Community	2.197	Counted under #1
46	OH5703512	Dayton P.W.S. -- Miami PI Well 004r	Community	2.245	Counted under #1
47	OH5703512	Dayton P.W.S. -- Miami PI Well 0036	Community	2.258	Counted under #1
48	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0007	Community	2.306	Counted under #1
49	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0008	Community	2.374	Counted under #1
50	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0009	Community	2.431	Counted under #1
51	OH5703612	Huber Heights Public Water System Plant 1 -- Well 0005	Community	2.793	38,278
52	OH5703512	Dayton P.W.S. -- Ottawa PI Well 003r	Community	2.814	Counted under #1
53	OH5703512	Dayton P.W.S. -- Ottawa PI Well 063	Community	2.833	Counted under #1
54	OH5703612	Huber Heights Public Water System Plant 1 -- Well 0004	Community	2.848	Counted under #51
55	OH5734812	Old Troy Pike Community Church Well 0001	Non-Community	2.874	40
56	OH5749112	Brantwood Baptist Church P.W.S. Well 0001	Non-Community	2.896	150
57	OH5703612	Huber Heights Public Water System Plant 1 -- Well 0003	Community	2.908	Counted under #51
58	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0002	Community	2.923	Counted under #1
59	OH5703612	Huber Heights Public Water System Plant 1 -- Well 0007	Community	2.938	Counted under #51
60	OH5703612	Huber Heights Public Water System Plant 1 -- Well 0006	Community	2.944	Counted under #51
61	OH5703612	Huber Heights Public Water System Plant 1 -- Well 0001	Community	2.952	Counted under #51
62	OH5703512	Dayton P.W.S. -- Ottawa PI Well 01r2	Community	3.039	Counted under #1
63	OH5703512	Dayton P.W.S. -- Ottawa PI Well 061	Community	3.068	Counted under #1
64	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0017	Community	3.074	Counted under #1
65	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0006	Community	3.166	Counted under #1
66	OH5703512	Dayton P.W.S. -- Ottawa PI Well 060	Community	3.198	Counted under #1
67	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0018	Community	3.211	Counted under #1

## Former Simclar Facility Montgomery County

MAP ID	SYSTEM ID	SYSTEM NAME and WELL NAME	SYSTEM TYPE	LINEAR DISTANCE	POPULATION SERVED
68	OH5703512	Dayton P.W.S. -- Ottawa PI Well 004r	Community	3.218	Counted under #1
69	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0031	Community	3.305	Counted under #1
70	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0050	Community	3.316	Counted under #1
71	OH5703512	Dayton P.W.S. -- Ottawa PI Well 005r	Community	3.348	Counted under #1
72	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0013	Community	3.349	Counted under #1
73	OH5737112	Voiture 40-8, 34 Well 0001	Non-Community	3.353	25
74	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0010	Community	3.380	Counted under #1
75	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0014	Community	3.387	Counted under #1
76	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0012	Community	3.434	Counted under #1
77	OH5703512	Dayton P.W.S. -- Ottawa PI Well 034r	Community	3.450	Counted under #1
78	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0015	Community	3.495	Counted under #1
79	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0051	Community	3.511	Counted under #1
80	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0011	Community	3.528	Counted under #1
81	OH5703512	Dayton P.W.S. -- Ottawa PI Well 035b	Community	3.567	Counted under #1
82	OH5744312	Fair Valley Country Club Well 0001	Non-Community	3.580	150
83	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0036	Community	3.591	Counted under #1
84	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0016	Community	3.613	Counted under #1
85	OH5703512	Dayton P.W.S. -- Miami PI Well Rr003	Community	3.631	Counted under #1
86	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0019	Community	3.636	Counted under #1
87	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0052	Community	3.643	Counted under #1
88	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0026	Community	3.664	Counted under #1
89	OH5701915	Oakwood City P.W.S. -- Springhouse Plant -- Well 0s02	Community	3.665	9,202
90	OH5701915	Oakwood City P.W.S. -- Springhouse Plant -- Well 0s03	Community	3.667	Counted under #89
91	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0027	Community	3.680	Counted under #1
92	OH5703512	Dayton P.W.S. -- Miami PI Well 0043	Community	3.684	Counted under #1
93	OH5701915	Oakwood City P.W.S. -- Springhouse Plant -- Well 0s01	Community	3.688	Counted under #89

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MAP ID	SYSTEM ID	SYSTEM NAME and WELL NAME	SYSTEM TYPE	LINEAR DISTANCE	POPULATION SERVED
94	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0020	Community	3.710	Counted under #1
95	OH5703512	Dayton P.W.S. -- Ottawa PI Well 028r	Community	3.745	Counted under #1
96	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0022	Community	3.761	Counted under #1
97	OH5701915	Oakwood City P.W.S. Shafor Rd Plant -- Well 0f07	Community	3.783	Counted under #89
98	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0021	Community	3.784	Counted under #1
99	OH5703512	Dayton P.W.S. -- Miami Plant Well 0042	Community	3.789	Counted under #1
100	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0053	Community	3.796	Counted under #1
101	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0023	Community	3.812	Counted under #1
102	OH5703512	Dayton P.W.S. -- Ottawa PI Well 029r	Community	3.824	Counted under #1
103	OH5703512	Dayton P.W.S. -- Ottawa PI Well 024r	Community	3.838	Counted under #1
104	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0025	Community	3.859	Counted under #1
105	OH5736512	Rip Rap Roadhouse P.W.S. Well 0001	Non-Community	3.865	100
106	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0030	Community	3.898	Counted under #1
107	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0040	Community	3.909	Counted under #1
108	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0038	Community	3.933	Counted under #1
109	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0054	Community	3.955	Counted under #1
110	OH5703512	Dayton P.W.S. -- Ottawa PI Well 041r	Community	3.958	Counted under #1
111	OH5703512	Dayton P.W.S. -- Miami Plant Well 0041	Community	3.976	Counted under #1
112	OH5703512	Dayton P.W.S. -- Ottawa PI Well 0033	Community	3.998	Counted under #1

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## Endangered and Threatened Species

MAP ID	LINEAR DISTANCE FROM SITE (MILES)	FEDERAL STATUS*	STATE STATUS*	SCIENTIFIC NAME	COMMON NAME
1	0.968	-	T	UNIOMERUS TETRALASMUS	PONDHORN

\*KEY:

*E - Endangered*

*T - Threatened*

*LE - Listed Endangered*

*LT - Listed Threatened*



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**Wetland Data**

MAP ID	WETLAND TYPE	LINEAR DISTANCE (MILES)
1	Riverine	0.188
2	Riverine	6.251
3	Freshwater Forested/Shrub Wetland	6.645
4	Freshwater Forested/Shrub Wetland	6.734
5	Riverine	7.452
6	Riverine	7.459
7	Freshwater Emergent Wetland	7.527
8	Freshwater Emergent Wetland	7.565
9	Riverine	7.828
<b>Total Wetland Frontage: 33.813 miles*</b>		
* This number is larger than the TDL because it includes both sides of the river, oxbows, former stream channels and/or canals.		